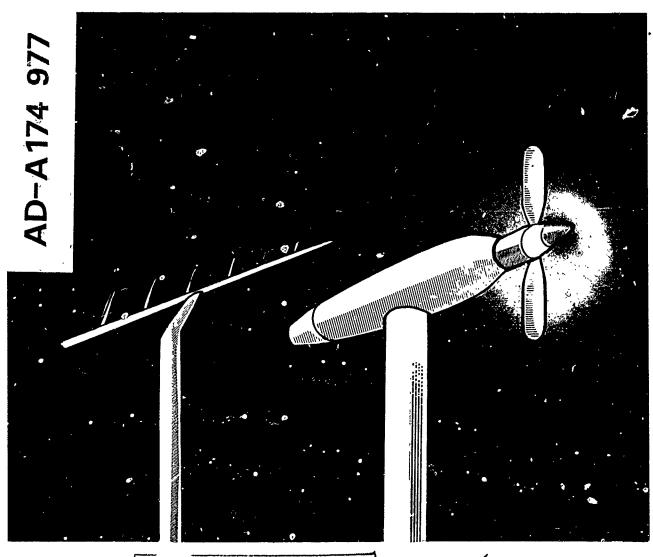
DFVLR/FAA Propeller Noise Tests in the German-Dutch Wind Tunnel DNW

Appendix I: Basic Test-program

(Properer 1: Thickness 6.4%, Round Tip-shape)

DFVLR-IB 129-86/3 FAA Report No. AEE 86-3



Jointly conducted by:

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US Department of Transportation

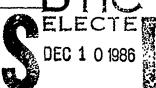
Federal Aviation Administration

Office of Environment and Energy



Deutsche Forschungs-und Versuchsanstalt für Luft-und Raumfahrt e.V.

Inst. fűr Entwurfsaerodynamik "abteilung Technisch» Akustik



by Werner M. Dobrzynski Hanno H. Heller John O. Powers James E Densmore

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DATA REPORT ON PROPELLER NOISE TESTS IN THE GERMAN-DUTCH WIND TUNNEL

APPENDIX I

RESULTS FROM THE BASIC TEST-PROGRAM (PROPELLER 1: THICKNESS 6.4%, ROUND TIP-SHAPE)

bу

W. Dobrzynski*, H. Heller*
and
J. Powers**, J. Densmore**

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- 2. Microphone Array
- 3. Environmental and Operational Test-data
- 4. Overall Noise Levels from Direct Analog Analysis
- 5. Acoustic Pressure-time Histories and Narrow-band Spectra
- 6. Propeller Rotational Harmonic Noise- and Overall Noise Levels
- 7. Comments on Data Interpretation

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1. Introduction

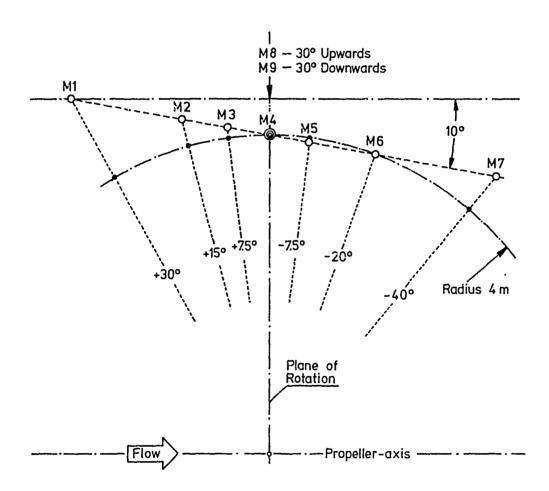
Within a joint effort (and supported by the German Ministry of Research and Technology/BMFT) between the Deutsche Forschungs-und Versuchsanstalt für Luft- und Raumfahrt (DFVLR), the US Federal Aviation Administration (FAA), and the German Ministry of Transportation (BMV), propeller noise tests were conducted in the "Deutsch-Niederländischer Windkanal/German Dutch Wind Tunnel (DNW)" to develop high quality propeller-acoustics data, which could be used by manufacturers for acoustic design purposes, and by researchers to validate established or newly developed theoretical noise prediction methods.

Specifically, the program addressed propeller Mach-number and disc-plane attitude effects as related to noise certification test and evaluation procedures. Changes in Mach-number, as they affect acoustic data adjustments, were explored through independent variation of tunnel flow velocity, propeller rotational speed and ambient air temperature. The tests on the effect of in-flow angle on propeller noise also incorporated the influence of a typical engine nacelle on the flow field and, hence, on the propeller noise.

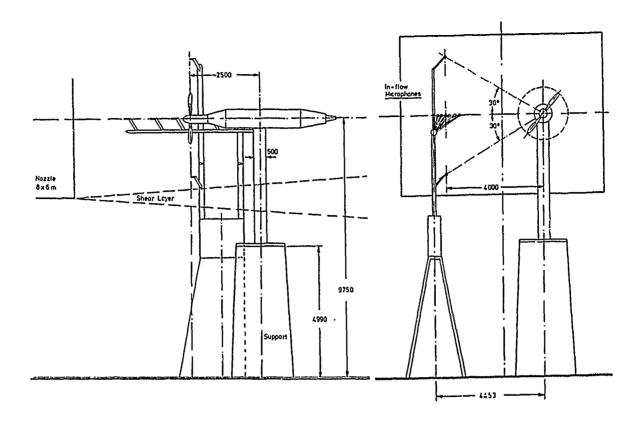
In this Appendix the results from the basic test-programm (Propeller 1: Thickness 6.4%, round tip-shape) are documented in terms of pressure—time histories, narrow—band spectra and unweighted as well as A—weighted overall sound pressure levels, together with supplementary information nescessary for further data interpretation. A detailed description of data-acquisition and -reduction techniques is provided by the "Executive Report" to this Appendix.

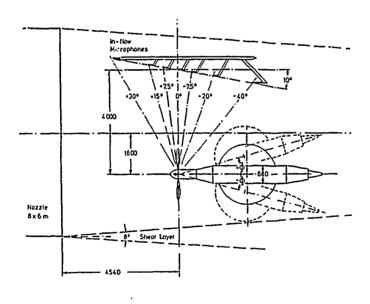
2. Microphone Array

A total of seven in-flow microphones were positioned in the horizontal plane at different streamwise locations corresponding to particular geometric radiation angles from the propeller center. Two additional microphones were positioned in the plane of rotation (4 m lateral distance to the propeller axis) at angles of ± 30 deg respectively above and below the horizontal plane with reference to the propeller center.



In-flow Microphone Positioning





Schematic Representation of Test-rig Arrangement within the Core-flow Regime of the DNW $8\times6m^2$ Open Test Section

3. Environmental and Operational Test-data

In the following table(s) the data-point matrix is documented. These table(s) summarise the as-measured data and characteristic propeller operational parameters as calculated from measured data.

HEL. MACHN.	1	0.6780 0.7738 0.8688 0.7809 0.8720	0.5727 0.6682 0.6725 0.6729 0.7639 0.8758 0.9027	0.5745 0.6705 0.5838 0.6754 0.7204 0.4321	0.5785 0.5852 0.6309 0.6883 0.3675
THRUST COEF.	1	0.0646 0.0646 0.0652 0.0198 0.0463	0.0881 0.0905 0.0933 0.0609 0.0801 0.0364 0.00460	0.1067 0.1091 0.0675 0.0930 0.1037 0.0763	0.1302 0.1135 0.1255 0.0980 0.0030
POWER COEF.	ı	0.0580 0.0605 0.0628 0.0279 0.0490	0.0682 0.0694 0.0723 0.0541 0.0652 0.0404 0.0459	0.0915 0.0950 0.0707 0.0871 0.0939 0.0777	0.1362 0.1248 0.1335 0.1166
ATTACK ANGLE	DEG	2.939 3.078 2.921 -1.155 1.134	6.507 6.410 6.564 2.910 4.848 0.186 0.930	8.769 8.636 3.975 6.710 7.783 4.338	12.005 9.345 10.820 7.089
ADV.	1	0.2417 0.2397 0.2419 0.3023 0.2680 0.3315	0.1786 0.1799 0.2292 0.2292 0.2697 0.2687	0.2000 0.2019 0.2689 0.2292 0.2139 0.2636	0.2292 0.2679 0.2463 0.3017 0.4510
FLOW DENS.	KG/CM	1.206 1.205 1.205 1.189 1.194	1.200 1.201 1.201 1.194 1.196 1.194 1.201	11.11.11.12.12.12.12.12.12.12.12.12.12.1	1.212 1.219 1.219 1.211
FLOW PRES.	PASCAL	99188. 99300. 99410. 99441. 99480.	99141. 99288. 99261. 99090. 98625. 98954.	100074. 100055. 100069. 100069. 100125.	100090. 100088. 100080. 100084.
FLOW TEMP.	KELVIN	286.0 286.5 287.9 289.3 299.3	287.1 287.2 287.1 288.7 289.3 287.0 289.0	287.5 287.1 287.1 287.0 287.0 287.0	287.0 285.6 285.4 286.0 286.8
ATT!TUDE ANGLE	DEG	000000	00000000	000000	00000
THRUST 11	NEWTON	1554. 2123. 2702. 642. 1907.	1623 3055 3055 1520 1550 1942	1981. 2756. 1255. 2359. 3011.	2422. 2123. 2756. 2491.
		103.8 1554. 161.6 2123. 237.8 2702. 73.6 642. 184.6 1907. 21.8 -78.	76.5 1623. 123.8 2270. 192.5 3055. 95.9 1520. 171.9 2599. 192.1 1942. 1942. 3.4 -98.	103.5 1981.	154.4 2422.
THRUST	NEWTO		1081000===	275 1 275 1 255 3 301 2 252	17634
POWER THRUST 11	KW NEWTO	2 161.6 237.8 237.8 73.6 2 184.6	7. 25. 25. 25. 25. 25. 25. 25. 25. 25. 25	103.5 170.7 170.7 170.7 125 20.1 2207.8 301 208.9 252 208.9 252 208.9	154.4 142.3 1 193.6 1 210.7 5.1
FLOW POWER THRUST VEL.	M/S KW NEWTO	54.0 103.8 61.2 161.6 69.5 237.8 77.2 73.6 77.0 184.6	34.2 76.5 1 40.2 123.8 2 45.4 192.5 3 51.2 192.9 3 77.2 152.1 1 76.8 192.1 1	38.3 103.5 198 45.1 170.7 275 51.5 80.1 125 51.2 157.0 235 51.2 207.8 301 67.3 208.9 252	43.9 154.4 51.3 142.3 51.1 193.6 67.4 210.7 51.3 5.1
ROT. FLOW POWER THRUST SPEED VEL.	RPM M/S KW NEWTO	8 2100. 54.0 103.8 8 2400. 61.2 161.6 8 2700. 69.5 237.8 8 2400. 77.2 73.6 8 2700. 77.0 184.6 8 2189. 77.2 21.8	9.9 1800. 34.2 76.5 1 9.9 2100. 40.2 123.8 2 9.9 2400. 45.4 192.5 3 9.9 2400. 51.2 95.9 1 9.9 2700. 77.2 152.1 1 9.9 2800. 76.8 192.1 1 9.9 1465. 51.5 3.4	3.7 1800. 38.3 103.5 198 3.7 2100. 45.1 170.7 275 3.7 2100. 51.5 80.1 125 3.7 2250. 51.2 157.0 235 3.7 2400. 67.3 208.9 252 3.7 1294. 51.0 6.0	9.0 1800. 43.9 154.4 9.0 1800. 51.3 142.3 9.0 1950. 51.1 193.6 9.0 2100. 67.4 210.7 9.0 1069. 51.3 5.1

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4. Overall Noise Levels from Direct Analog Analysis

The following tables provide unweighted (OASPL) and A-weighted (L_A) overall sound pressure levels from quick-look analog data-analysis of measured data for all data-points and microphone positions respectively. Level-numbers which are identified with an asterix are "disturbed data" and should not be interpreted.

BASIC PROGRAM, ROUND-TIP PROP. (1)

DNW PROPELLER NOISE TEST

63 AN 64 AN 65 AN 67 AN 66 AN	oint N-1 N-2 N-3 N-4 N-5	L _A -dB(A) OASPL-dB L _A -dB(A) OASPL-dB L _A -dB(A) OASPL-dB L _A -dB(A) OASPL-dB L _A -dB(A)		94.8 109.8* 104.2 114.6 118.3 124.9* 107.4*	95.7 109.7 106.5 115.2 119.5	97.0 111.0 107.3 116.8 120.4	97.7 112.8 108.1 118.3	M6			98.9 112.4 106.4 117.3
64 AN 65 AN 67 AN 66 AN	N-2 N-3 N-4 N-5	OASPL-dB L _A -dB(A) OASPL-dB L _A -dB(A) OASPL-dB L _A -dB(A) OASPL-dB L _A -dB(A)	104.2 99.5 110.5 110.0* 117.7 107.3*	109.8* 104.2 114.6 118.3 124.9*	109.7 106.5 115.2 119.5	111.0 107.3 116.8	112.8 108.1 118.3		112.2* 103.7*	116.4* 107.4	112.4 106.4
65 AN 67 AN 66 AN	N-3 N-4 N-5	L _A -dB(A) OASPL-dB L _A -dB(A) OASPL-dB L _A -dB(A) OASPL-dB L _A -dB(A)	99.5 110.5 110.0* 117.7 107.3*	104.2 114.6 118.3 124.9*	106.5 115.2 119.5	107.3 116.8	108.1 118.3		103.7*	107.4	106.4
65 AN 67 AN 66 AN	N-3 N-4 N-5	OÄSPL-dB L _A -dB(A) OASPL-dB L _A -dB(A) OASPL-dB L _A -dB(A)	110.5 110.0* 117.7 107.3*	114.6 118.3 124.9*	115.2 119.5	116.8	118.3	i			
67 AN	N-4 N-5	L _A -dB(A) OASPL-dB L _A -dB(A) OASPL-dB L _A -dB(A)	110.0* 117.7 107.3*	118.3 124.9*	119.5	1		~	114.7*	110 6	117 2
67 AN	N-4 N-5	OASPL-dB L _A -dB(A) OASPL-dB L _A -dB(A)	117.7 107.3*	124.9*		120.4				110.0	111/03
66 AN	N-5	L _A -dB(A) OASPL-dB L _A -dB(A)	107.3*		123.4		119.6		116.2*	119.0	119.4
66 AN	N-5	OASPL-dB L _A -dB(A)		107.4*	~~J - 1	124.7	124.9]	129.1*	124.1	124.8
		$L_A-dB(A)$	116.6*		106.4	107.0	107.6		124.9*	108.3*	107.1
				121.0*	116.7	118.2*	118.4		138.0*	126.1	124.8*
68** AN			111.5*	119.1*	119.2	119.8	118.7		123.5*	118.3	118.6
68** AN		OASPL-dB	120.1*	127.9*	123.2	124.7	124.2		137.3*	126.0*	126.5*
- 1	N-7	$L_{A}-dB(A)$	105.3*	104.5*	101.3	104.4*	105.1		124.8*	106.4*	104.5
		OASPL-db	114.3*	121.0*	115.8	118.2*	117.3		137.6*	126.2	124.9*
1						ļ :					
58 BN	N-1	$L_A-dB(A)$	84.1	85.0	86.1	86.9	87.8		86.7	84.2	88.1
		OASPL-dB	99.7	102.4	104.1	105.2	106.6		105.9	104.4	107.4
57 BN	N-2	L_{Λ} -dB(A)	89.0	93.9	96.0	96.9	97.2		93.1	94.2	97.8
l		OASPL-dB	104.5	108.7	110.1	111.5	113.0		112.3	108.7	112.0
56 BN	N-3	L_{Λ} -dB(A)	97.9	1.04.3	107.0	107.7	108.8		101.0	105.7	107.2
		OASPL-dB	110.1	114.0	115.8	117.2	119.2		117.6	115.2	116.9
54 BN	N-4	$L_A - dB(A)$	90.2	93.5	94.8	96.0	96.5		97.9*	101.0*	97.2
- [OÄSPL-dB	103.6	109.3*	109.2	110.1	111.8		111.9*	115.2	111.3
53 BN	N-5	L,-dB	97.3	103.4	106.3	106.5	107.8		101.9*	106.4*	106.1
		OASPL-dB	108.6	113.9*	115.4	116.6	118.6		117.1*	117.4	116.6
51 BN	N-6	$L_A-dB(A)$	111.1*	119.3*	119.3	119.4	118.4		114.5*	117.4	118.9
		OASPL-dB	120.1	127.6*	123.3	123.9	123,5		138.0*	125.2*	126.6
52 BN	N-61	L_{Λ} -dB(A)	112.8*	123.1*	124.7	124.7	123.2		126.1*	122.3	123.8
1		OASPL-dB	120.1*	130.6*	127.0	127.5	126.8		139.4*	126.4	128.3
55** BN	N-7	I., -dB(A)	87.9	88.7	88.7	89.6	92.0		94.2*	99.6*	
1		OASPL-dB	97.1	105.9*	99.4	100.6	105.3		106.7*	114.0*	108.7*
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*Higher "R" values

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Linear- and A-weighted Overall Noise Levels from Analog Data Analysis

BASIC PROGRAM, ROUND-TIP PROP. (2)

DNW PROPELLER NOISE TEST

Run	Data					In-Flow	Noise	Level		······································	
No.	Point		Ml	M2	м3	M4	M5	M6	M7	м8	M9
104	CN-1	$L_A - dB(A)$	87.1	88.8	89.9	90.6	90.8	89.8	88.7	88.4	91.2
		OASPL-dB	103.1	106.2*		108.6	109.4	108.0	105.4	108.5	108.8
103	CN-2	$L_A - dB(A)$	91.8	96.5	98.9	100.2	100.4	98.8	95.0	98.4	98.8
	ĺ	oāspl-db	105.6	111.6	113.3	115.1	116.1	115.5	112.3	113.0	112.8
101	CN-3	$L_A-dB(A)$	88.9	91.1*	91.6	91.2	92.6	91.5		100.0*	
		oaspl-ab	102.1	110.3*	105.7	107.4	109.0	107.5	105.5*	114.5*	
100	CN-4	$L_A - dE(A)$	91.7	96.3	97.8	99.1	99.5	98.1	95.1	101.3*	98.9
		OASPL-dB	106.4	111.6*	112.0	113.6	114.9	114.6	113.0	115.9*	113.2
99	CN-7	$L_A-dB(A)$	95.4	100.8	103.4	104.8	105.4	103.3	99.7*	105.5	103.6
	ŀ	OASPL-dB	109.6	115.5	116.4	117.5	118.2	117.0	115.7*	119.2*	116.2
98	CN-5	$L_A - dB(A)$	102.1*	105.6	107.9	109.1	109.8	106.7	98.٦★	109.4	108.0
	İ	oaspl-db	112.4	117.1*	116.7	119.0*	120.5	119.8	111.	120.9	120.3
102**	CN-6	$L_A - dB(A)$	88.2	89.0*		89.1	91.2	89.8*	91.1*	. 02.0*	93.8
		oaspl-db	97.5	106.1*		100.6*		102.7*	100.6	113.1*	107.8
97	DN-1	$L_A-dB(A)$	93.8	94.7	95.6	96.2	96.4	95.5	94.8	94.2	97.0
•		OASPL-dB	105.1	109.7*		111.6	112.9	112.3	109.9		113.3
93	DN-2	$L_A - dB(A)$	91.3	93.3	93.9	94.6	95.6	94.6	96.0*		
		OASPL-dB	105.6	110.2*		112.2	113.5	112.2	109.3*		1.3.1
92	DN-5	$L_A-dB(A)$	94.4	97.0	98.3	98.7	99.4	98.8	99.1	100.2*	99.7
		OASPL-dB	105.8	111.7*	112.6	114.9	116.5	116.4	112.2	116.5*	115.7
91	DN-3	$L_A - dB(A)$	97.2*		101.2	103.2	104.6	101.9	109.6*	1	103.8
7.1	1211-3	OASPL-dB	110.2*			117.7	119.0	117.7			119.2
96*	DN-4	$L_A-dB(A)$	88.0	89.9*	90.4	88.7	91.2	90.2	91.2*		93.8
70	DIA-4	OASPL-dB	97.4	110.7*	98.6*	100.8*		103.0	101.3*		108.2*
477.1	<u> </u>	0 1	<u> </u>		<u>L</u>	<u> </u>	<u> </u>	<u></u>	L	<u> </u>	<u></u>

*Higher "R" values

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Linear- and A-weighted Overall Noise Levels from Analog Data-analysis

5. Acoustic Pressure-time Histories and Narrow-band Spectra

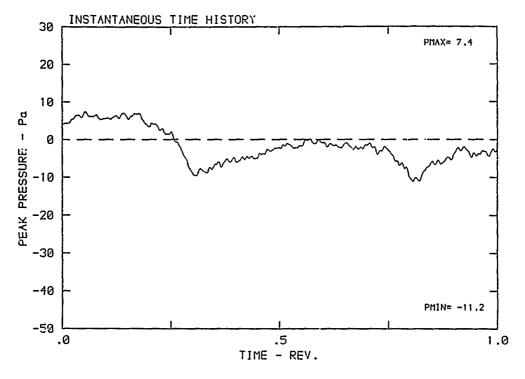
Acoustic data as presented in this section have been derived from a computer analysis of digitized analog tape-readings. For each data-point and microphone position respectively the data were processed and are presented in two different ways:

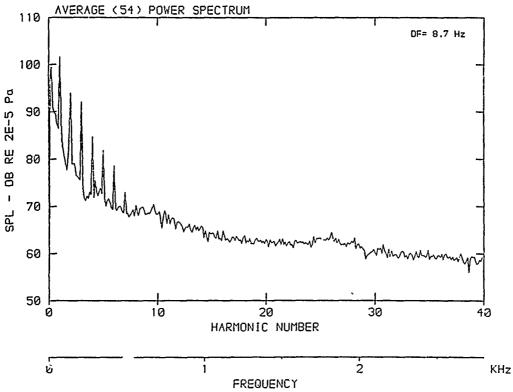
- a) A single instantaneous pressure-time history is presented and labeled "Instantaneous Time History" together with a power spectrum which had been calculated as an energy average of individual power spectra corresponding to a certain number of instantaneous pressure-time histories. This spectrum is labeled "Average (xx) Power Spectrum". The "xx" in the lable denotes the number of time histories averaged in that particular spectrum.
- b) A certain number of instantaneous pressure-time histories is averaged in the time-domain and the resulting pressure averaged time-history is labeled "Average (xx) Time History". The "xx" in the label denotes the number of averaged instantaneous time-histories.

The value of ΔP in the brackets behind this label denotes the maximum peak-to-peak pressure amplitude difference in %, when referenced to the minimum peak-to-peak pressure amplitude difference as detected in the "xx" instantaneous time histories. The magnitude of ΔP can be taken as indicator to judge the stationarity (quality) of the respective data-record. If the value of ΔP is in excess of 496% respective data are marked with a triple star (***) to indicate that the data are heavily distorted.

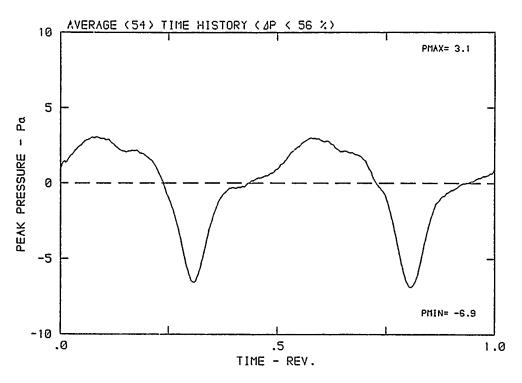
From the pressure-averaged time-history a pressure level spectrum is calculated and labeled "Power Spectrum of Averaged Time History".

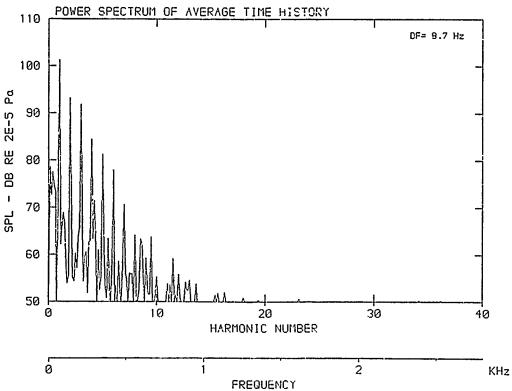
 β : 20.8° MH: .6779 n: 2100 rpm v/u: .242 ϕ : .0° T: 286.0 K



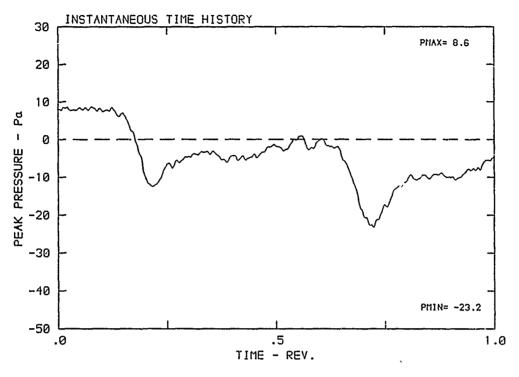


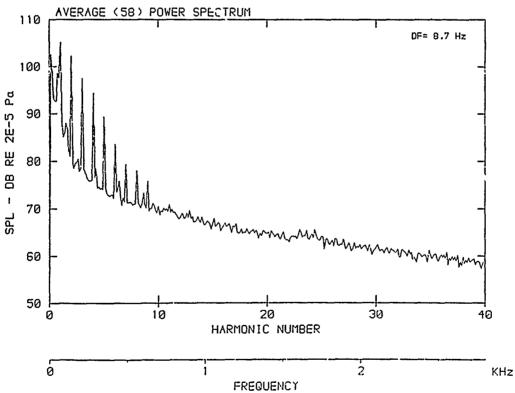
 $\beta\colon\,20.8^{o}\,$ MH: .6779 n: 2100 rpm v/u: .242 $\,\varphi\colon\,.0^{o}\,$ T: 286.0 K



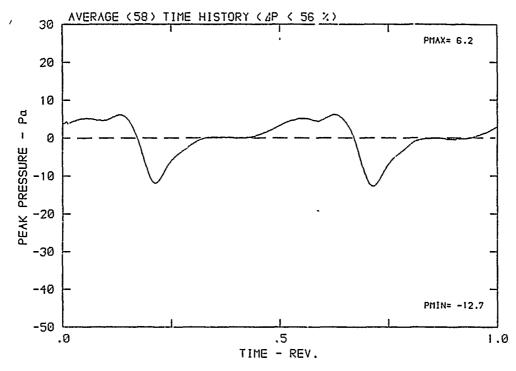


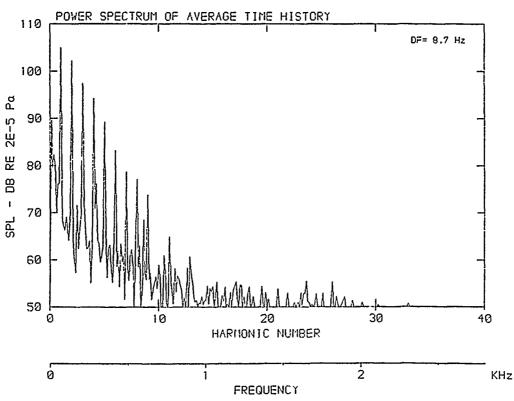
 $β: 20.8^{\circ}$ MH: .6779 n: 2100 rpm v/u: .242 φ: .0° T: 286.0 K



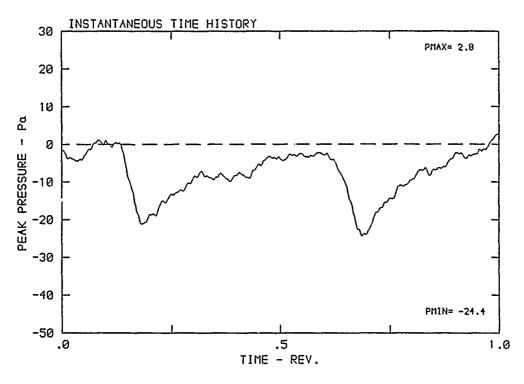


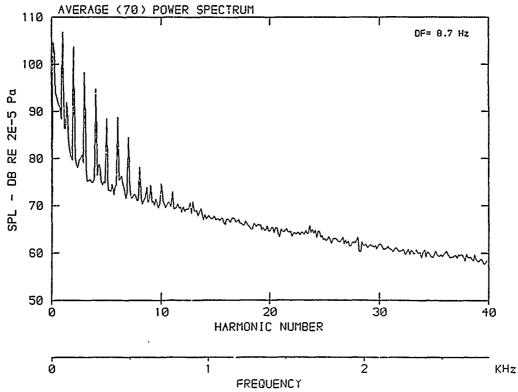
 $\beta\colon\,20.8^{o}$ MH: .6779 n: 2100 rpm v/u: .242 $\varphi\colon\,.0^{o}$ T: 286.0 K



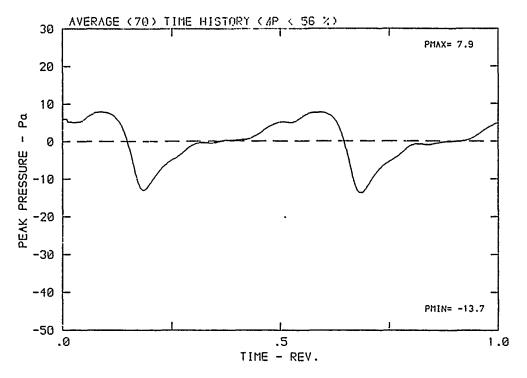


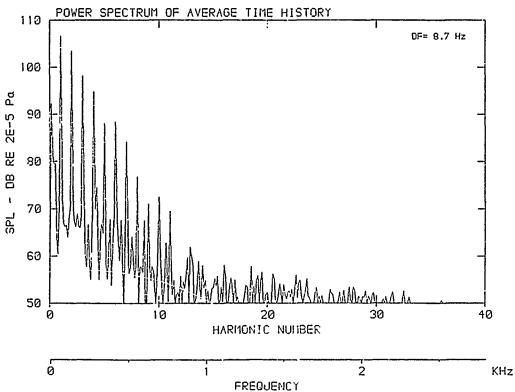
 β : 20.8° MH: .6779 n: 2100 rpm v/u: .242 ϕ : .0° T: 286.0 K



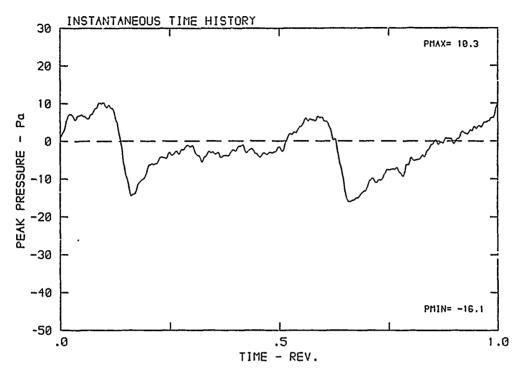


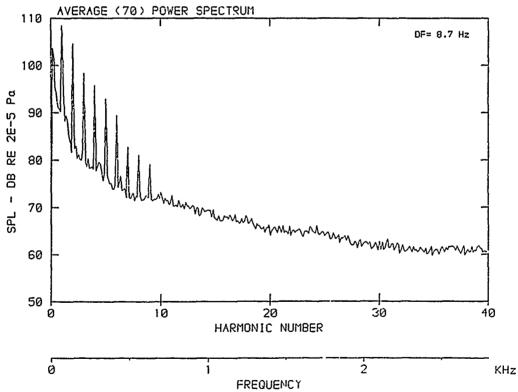
 β : 20.8° MH: .6779 n: 2100 rpm v/u: .242 ϕ : .0° T: 285.0 K



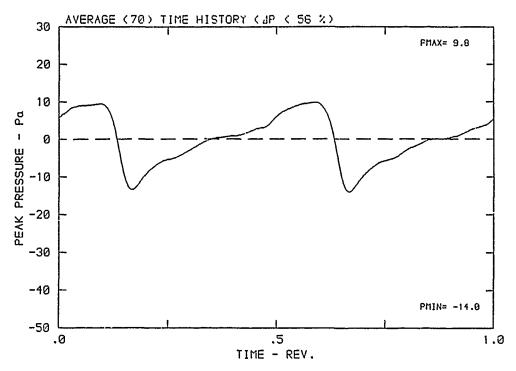


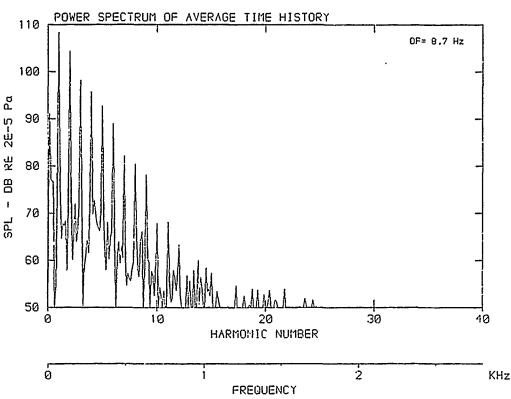
 β : 20.8° MH: .6779 n: 2100 rpm v/u: .242 ϕ : .0° T: 286.0 K





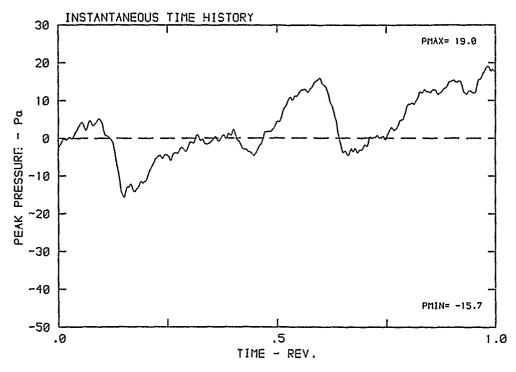
 $\beta\colon\,20.8^{\circ}\,$ MH: .6779 n: 2100 rpm v/u: .242 $\varphi\colon\,.0^{\circ}\,$ T: 286.0 K

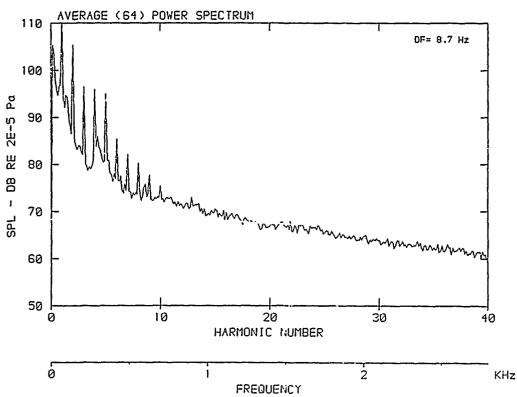




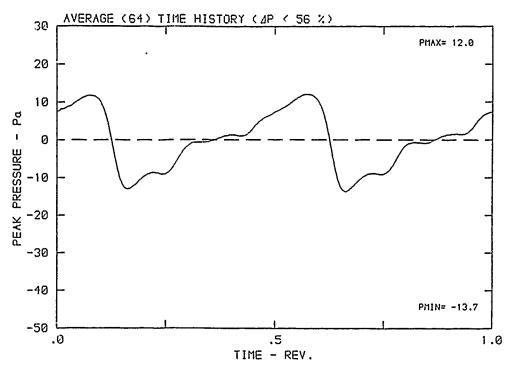
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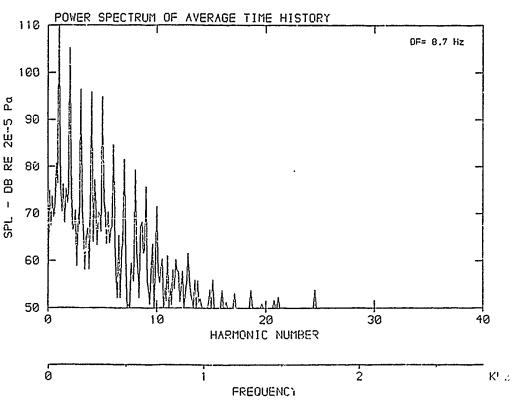
 $\beta\colon\thinspace 20.8^{o}$ MH: .6779 n: 2100 rpm v/u: .242 $\varphi\colon\:.0^{o}$ T: 286.0 K



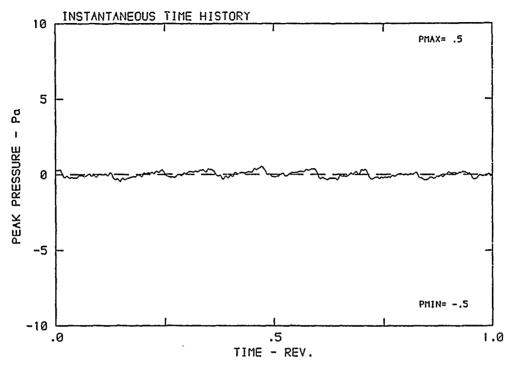


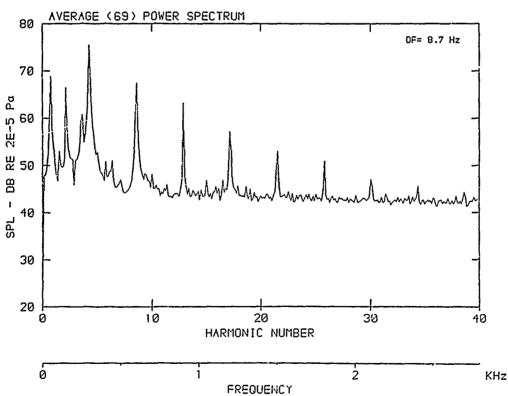
 β : 20.8° MH: .6779 n: 2100 rpm v/u: .242 ϕ : .0° T: 286.0 K



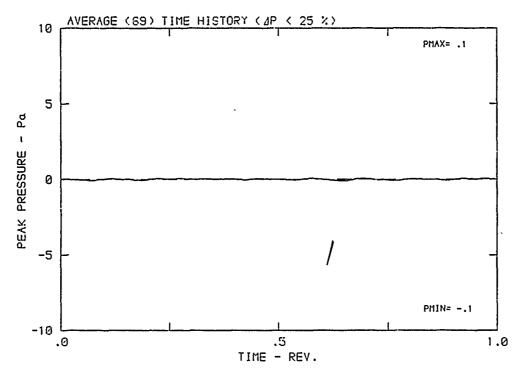


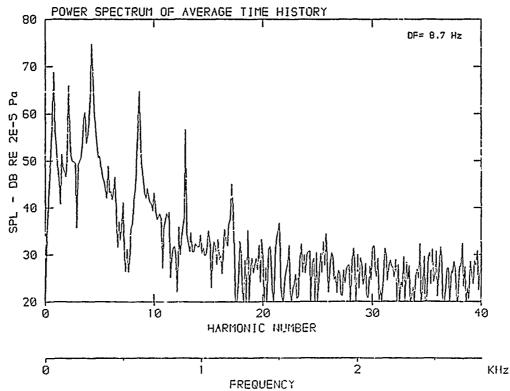
 β : 20.8° MH: .6779 n: 2100 rpm v/u: .242 ϕ : .0° T: 286.0 K





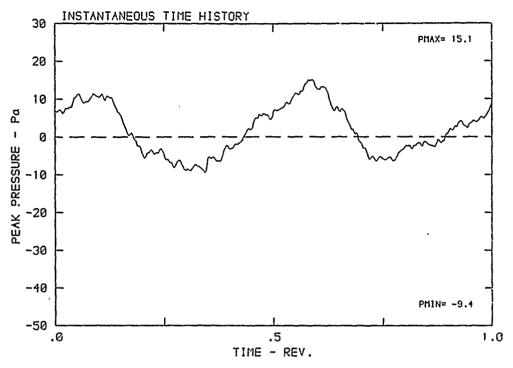
 $\beta\colon\,20.8^{o}$ MH: .6779 n: 2100 rpm v/u: .242 $\varphi\colon\,.0^{o}$ T: 286.0 K

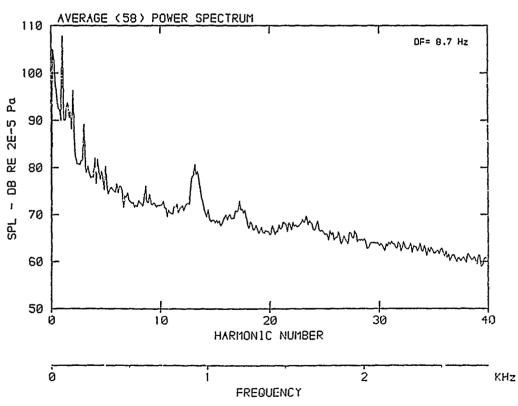




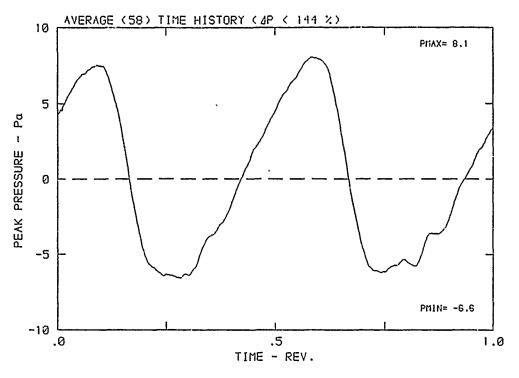
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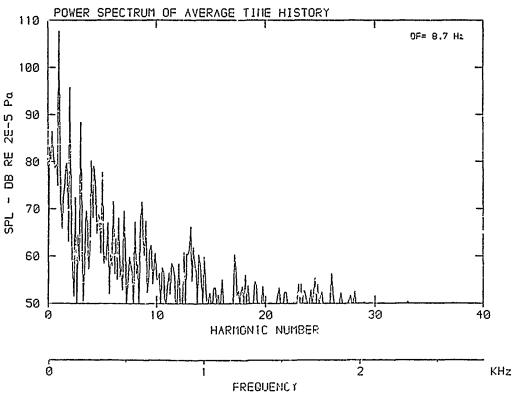
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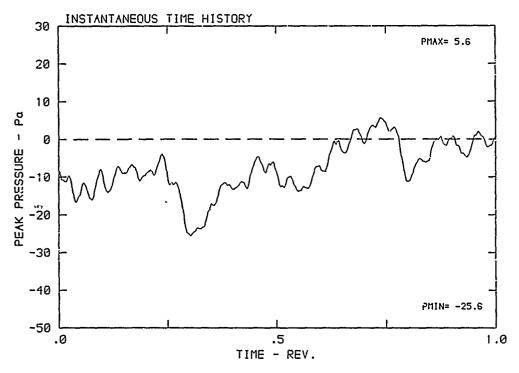


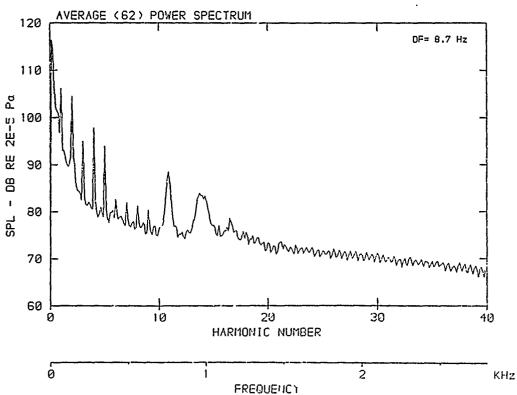
 β : 20.8° MH: .6779 n: 2100 rpm v/u: .242 ϕ : .0° T: 286.0 K



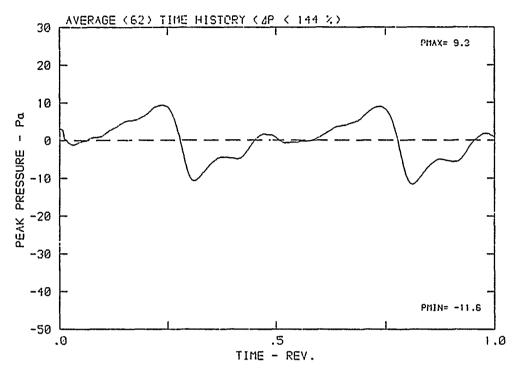


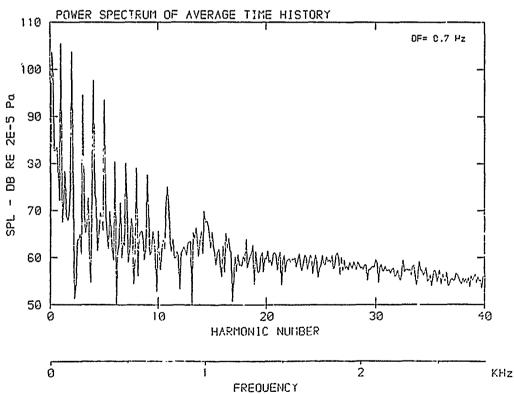
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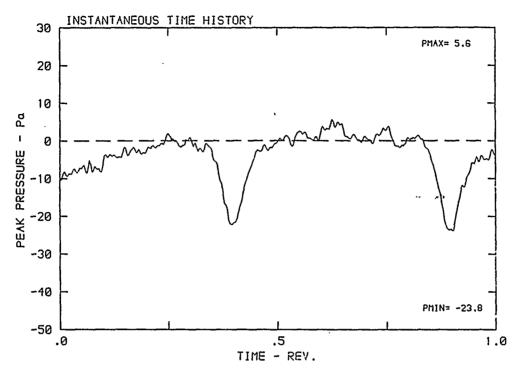


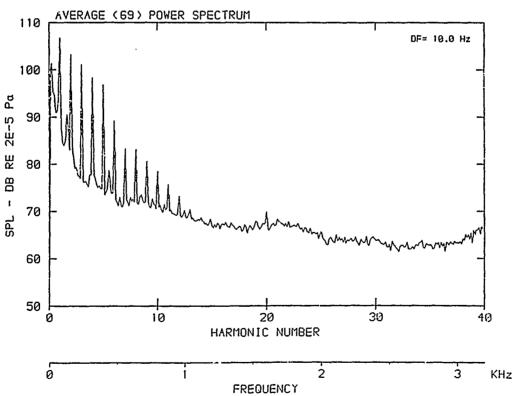
 β : 20.8° MH: .6779 n: 2100 rpm v/u: .242 ϕ : .0° T: 286.0 K



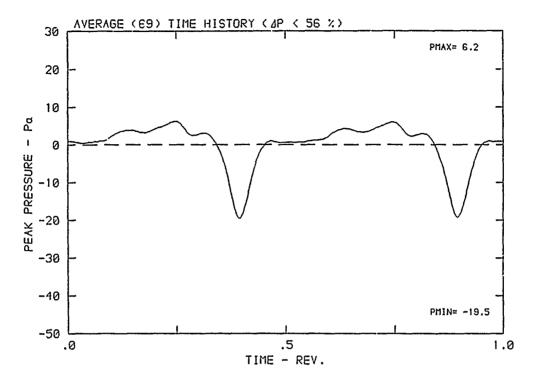


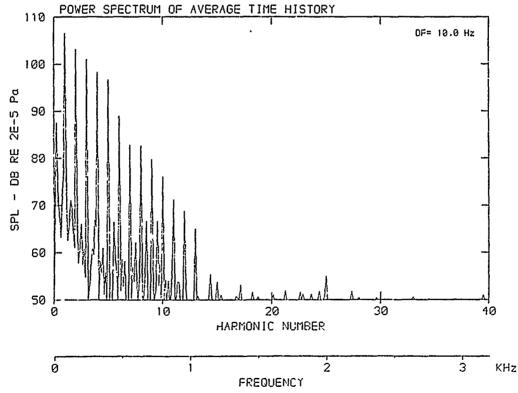
 β : 20.8° MH: .7738 n: 2400 rpm v/u: .240 ψ : .0° T: 286.5 K



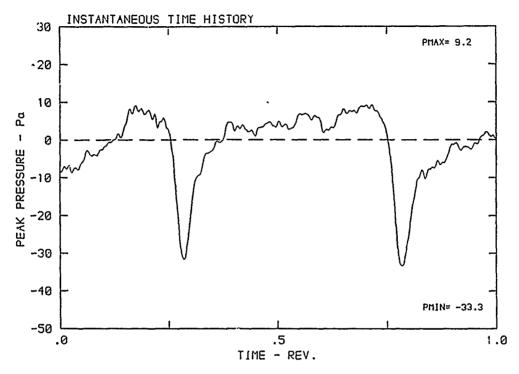


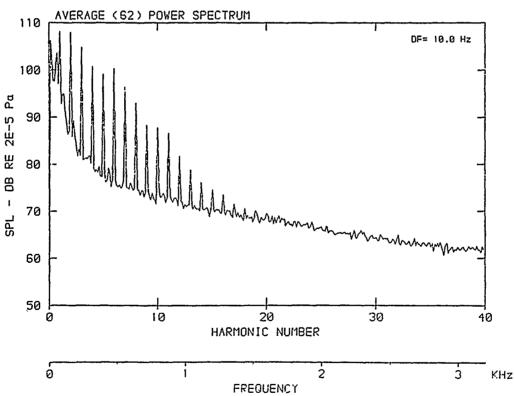
 β : 20.8° MH: .7738 n: 2400 rpm v/u: .240 ϕ : .0° T: 286.5 K



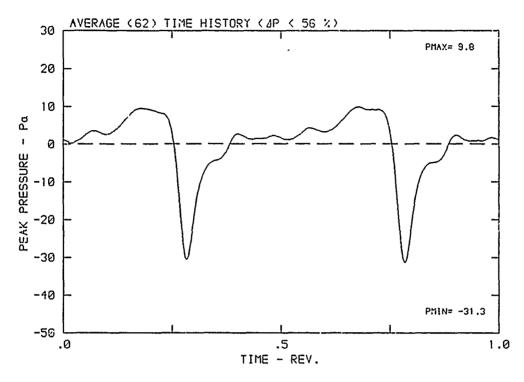


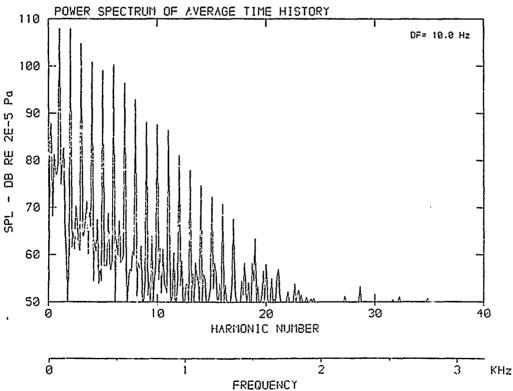
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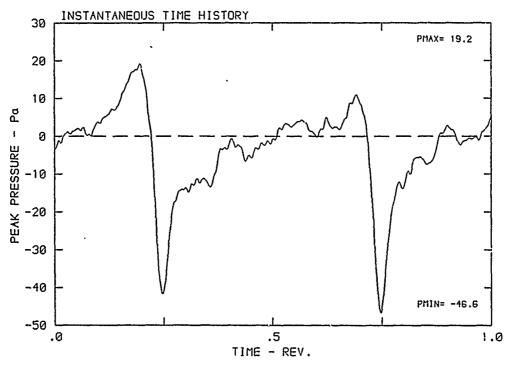


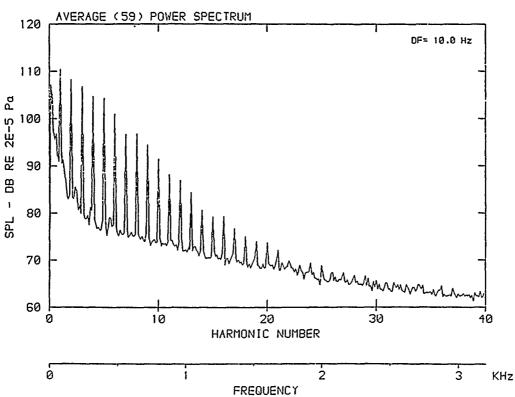
 $\beta\colon\thinspace 20.8^{\scriptsize 0}$ MH: .7738 n: 2400 rpm v/u: .240 $\varphi\colon\:.0^{\scriptsize 0}$ T: 286.5 K



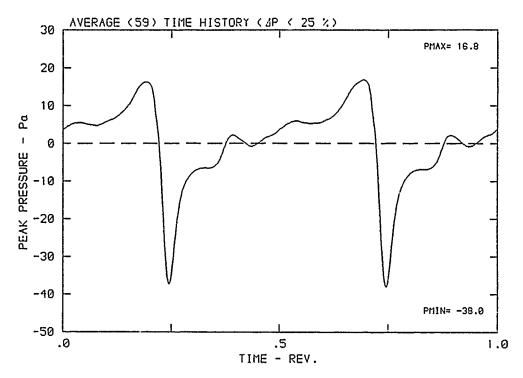


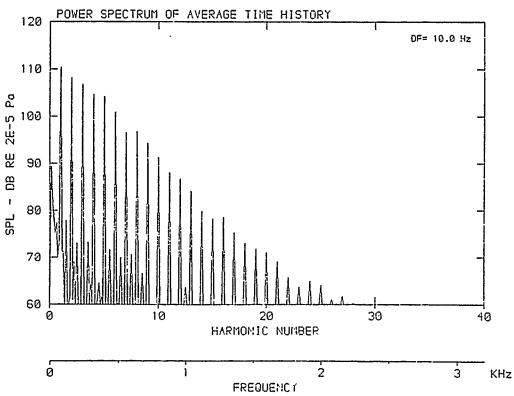
β: 20.8° MH: .7738 n: 2400 rpm v/u: .240 ¢: .0° T: 286.5 K



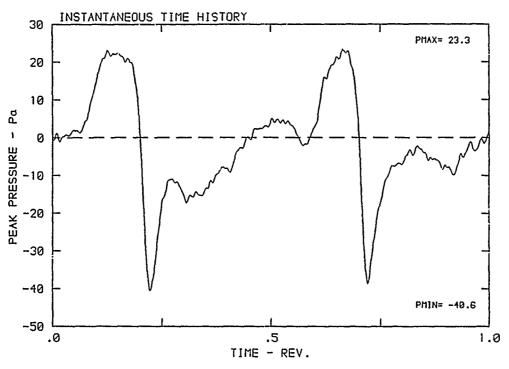


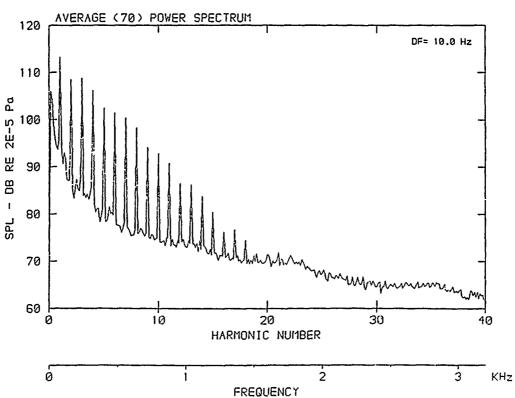
 $\beta\colon\thinspace 20.8^{o}$ MH: .7738 n: 2400 rpm v/u: .240 $\varphi\colon\:.0^{o}$ T: 286.5 K





 β : 20.8° MH: .7738 n: 2400 rpm v/u: .240 ϕ : .0° T: 286.5 K

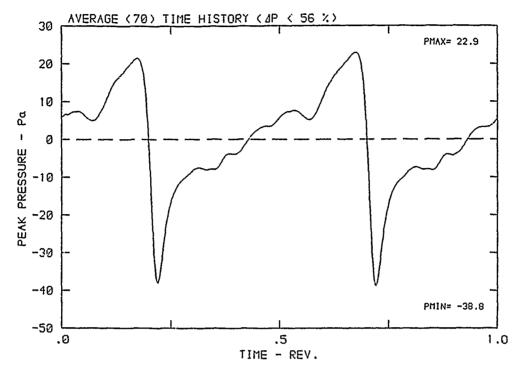


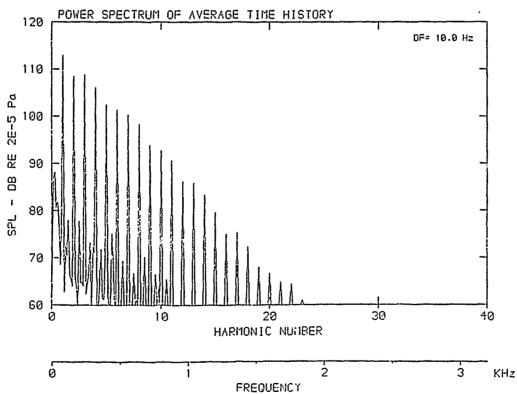


 $\beta\colon 20.8^{o}$ MH: .7738 n: 2400 rpm v/u: .240 $\varphi\colon .0^{o}$ T: 286.5 K

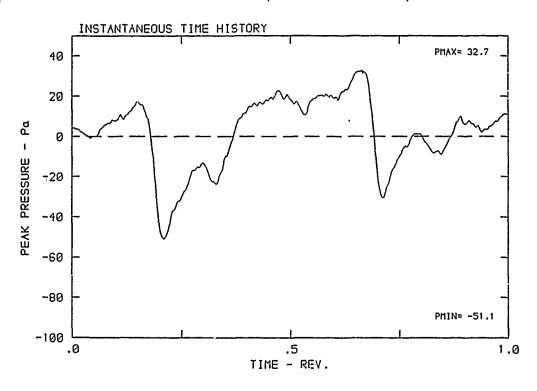
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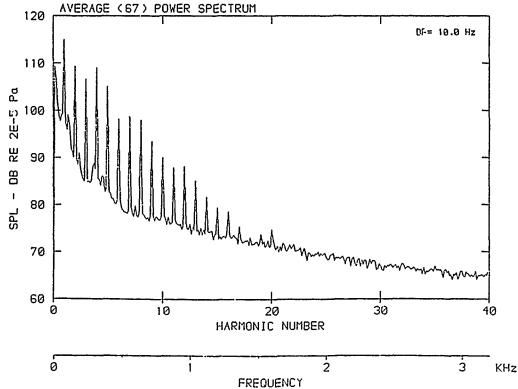
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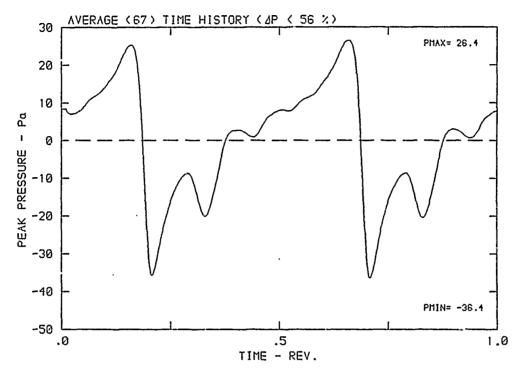


 $β: 20.8^{\circ}$ MH: .7738 n: 2400 rpm v/u: .240 φ: .0° T: 286.5 K

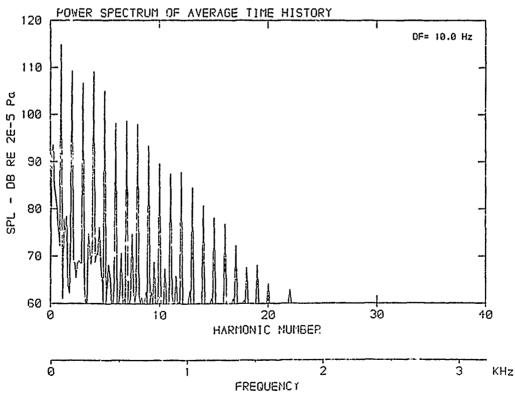




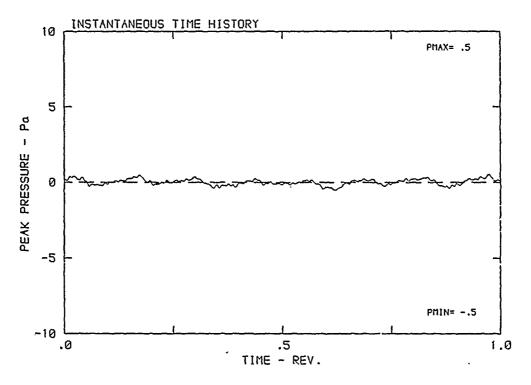
 $\beta\colon 20.8^{o}$ MH: .7738 n: 2400 rpm v/u: .240 $\varphi\colon .0^{o}$ T: 286.5 K

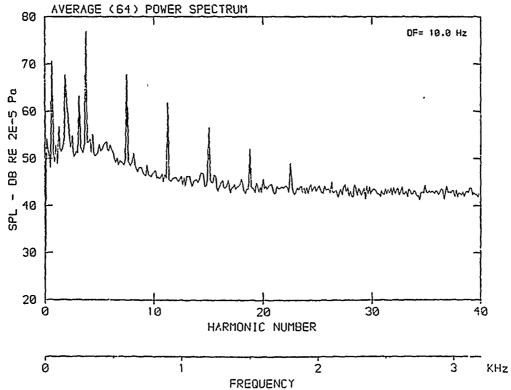


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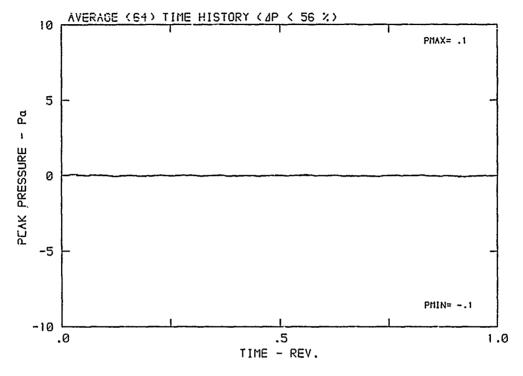
 $\beta\colon\,20.8^{o}$ MH: .7738 n: 2400 rpm v/u: .240 $\varphi\colon\,.0^{o}$ T: 286.5 K

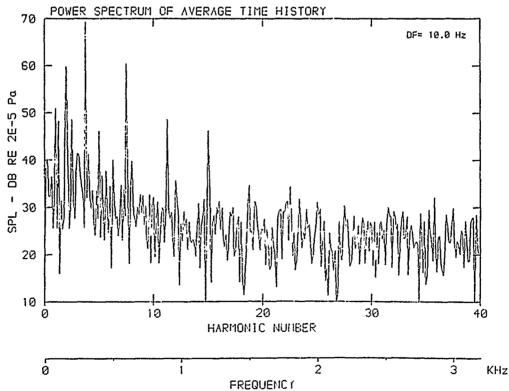




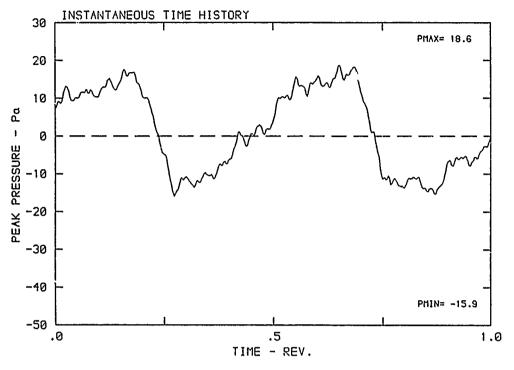
 β : 20.8° MH: .7738 n: 2400 rpm v/u: .240 ϕ : .0° T: 286.5 K

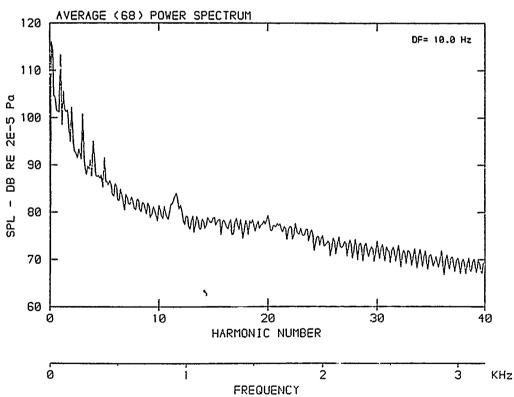
MARKET INSTRUCTION



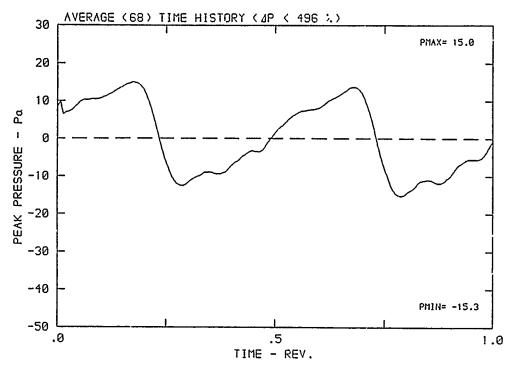


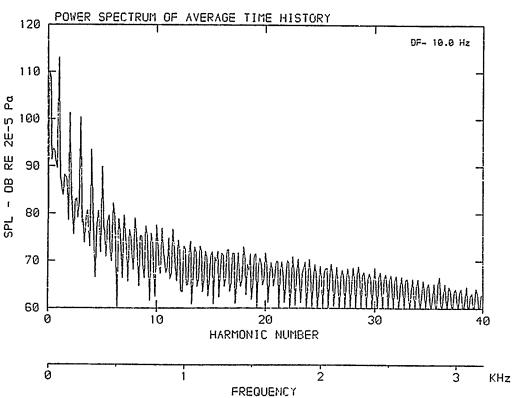
 β : 20.8° MH: .7738 n: 2400 rpm v/u: .240 ϕ : .0° T: 286.5 K



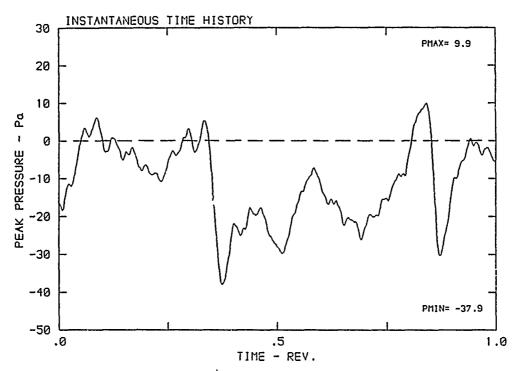


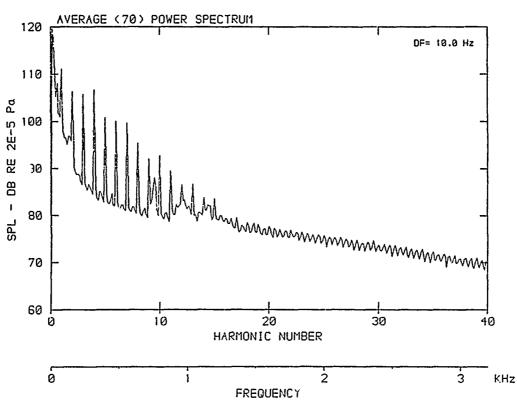
β: 20.8° MH: .7738 n: 2400 rpm v/u: .240 φ: .0° T: 286.5 K



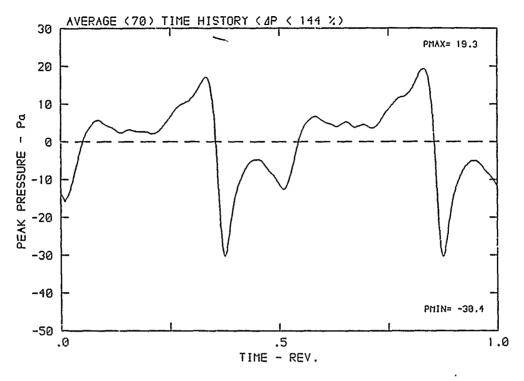


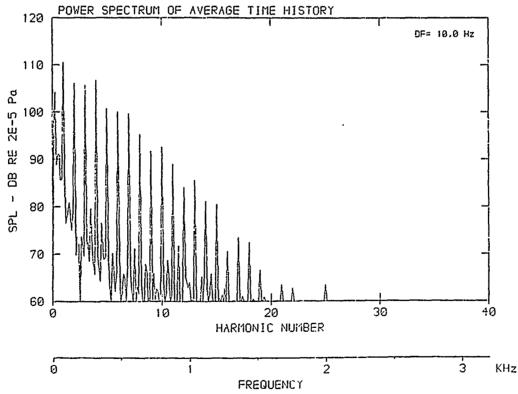
 $\beta\colon\,20.8^{o}\,$ MH: .7738 n: 2400 rpm v/u: .240 $\,\varphi\colon\,.0^{o}\,$ T: 286.5 K



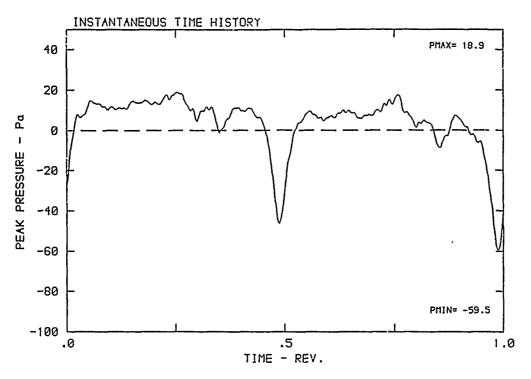


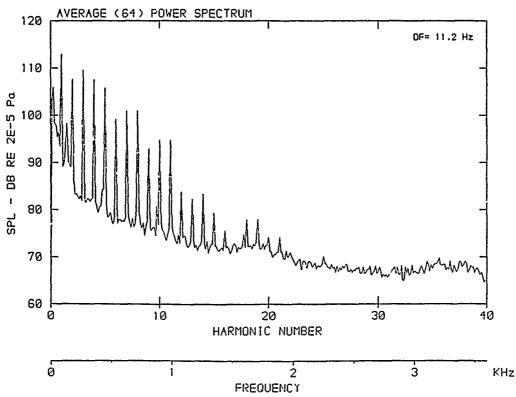
 $\beta\colon 20.8^{o}$ MH: .7738 n: 2400 rpm v/u: .240 $\varphi\colon .0^{o}$ T: 286.5 K





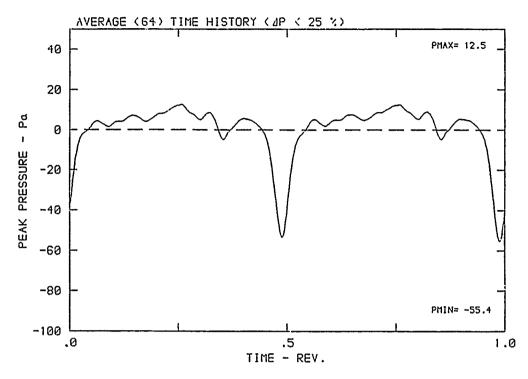
 β : 20.8° MH: .8688 n: 2700 rpm v/u: .242 ψ : .0° T: 287.9 K

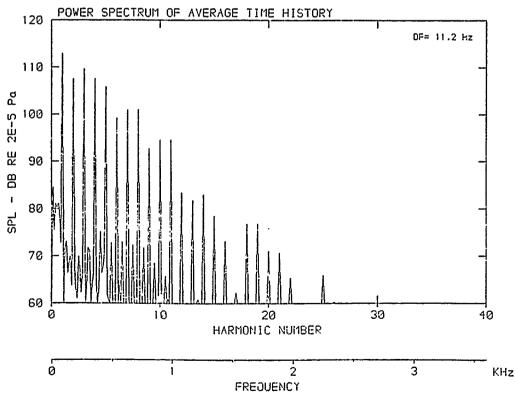




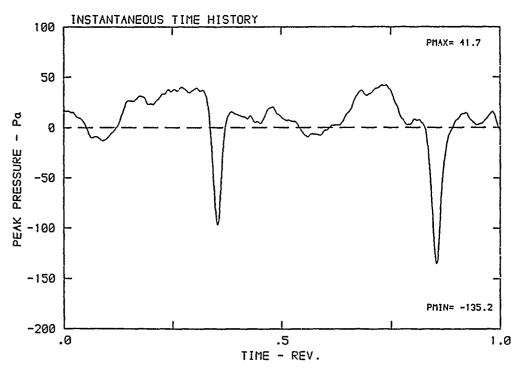
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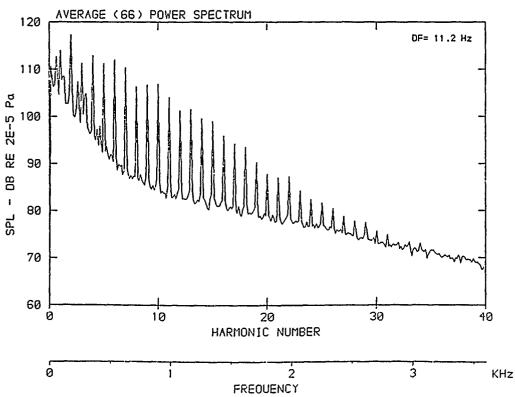
 β : 20.8° MH: .8688 n: 2700 rpm v/u: .242 ϕ : .0° T: 287.9 K



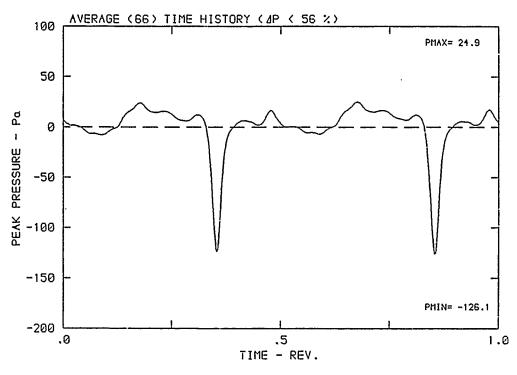


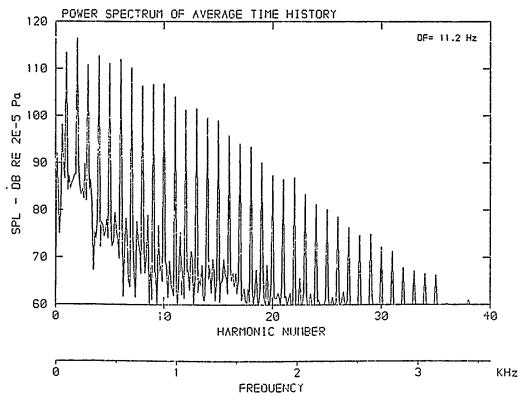
 β : 20.8° MH: .8688 n: 2700 rpm v/u: .242 ϕ : .0° T: 287.9 K



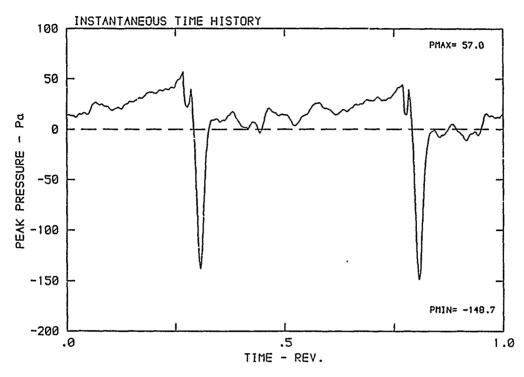


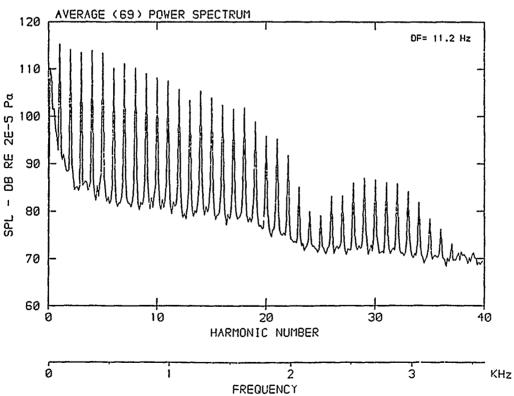
 β : 20.8° MH: .8688 n: 2700 rpm v/u: .242 ϕ : .0° T: 287.9 K



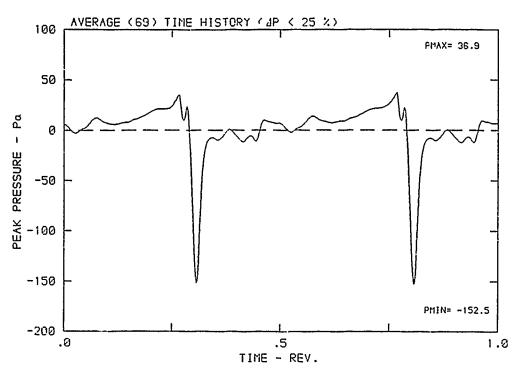


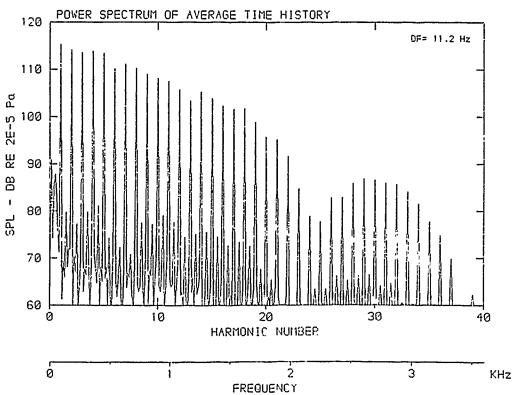
AND MARKALLA CARACTER SECONDARION OF
 β : 20.8° MH: .8688 n: 2700 rpm v/u: .242 ϕ : .0° T: 287.9 K



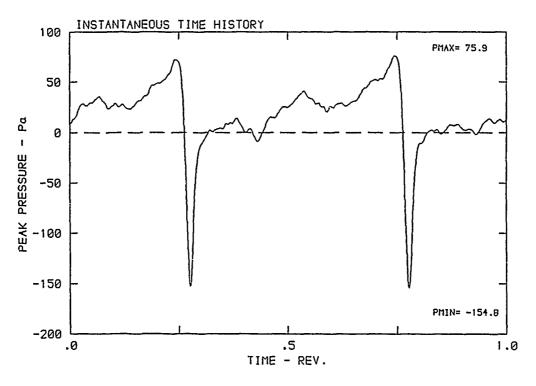


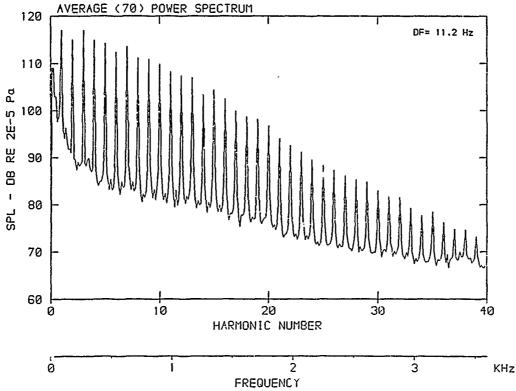
 $\beta\colon\,20.8^{o}$ MH: .8688 n: 2700 rpm v/u: .242 $\varphi\colon\,.0^{o}$ T: 287.9 K



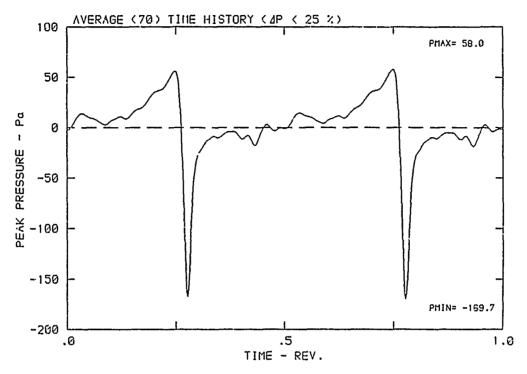


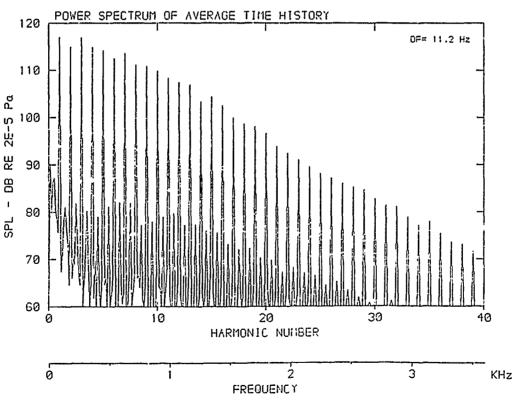
 β : 20.8° MH: .8688 n: 2700 rpm v/u: .242 ϕ : .0° T: 287.9 K



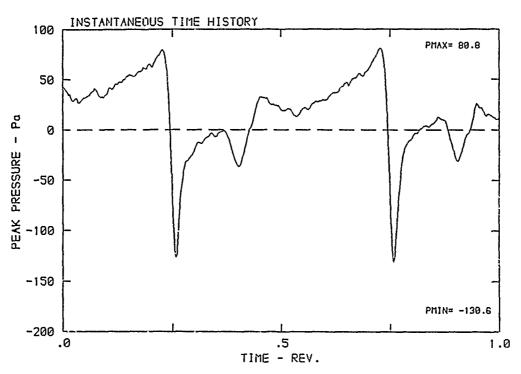


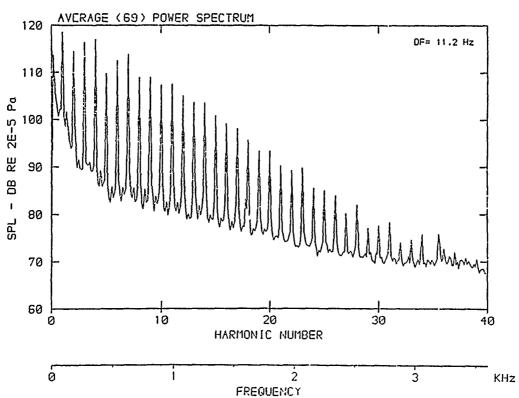
 β : 20.8° MH: .8688 n: 2700 rpm v/u: .242 ϕ : .0° T: 287.9 K





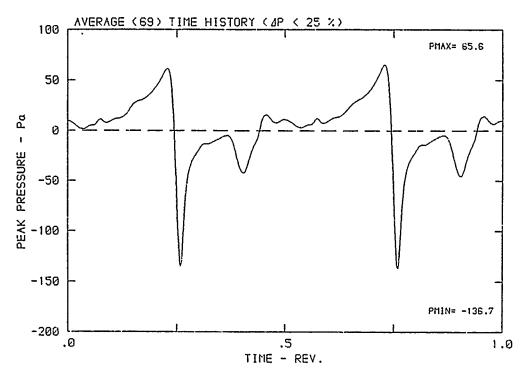
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 β : 20.8° MH: .8688 n: 2700 rpm v/u: .242 ϕ : .0° T: 287.9 K

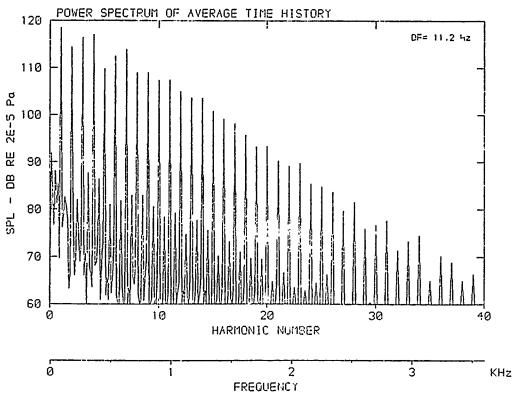




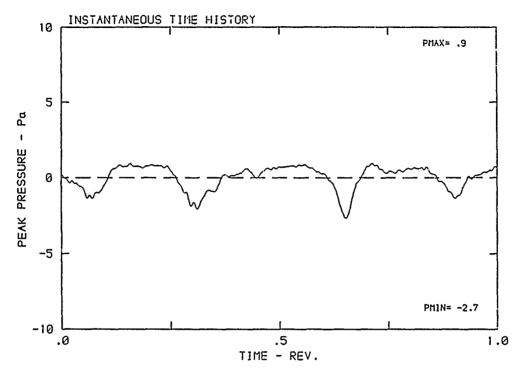
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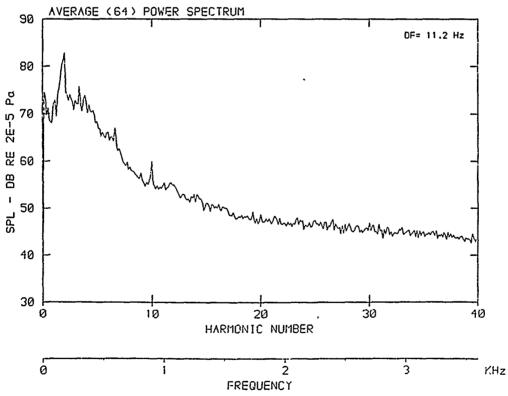
 β : 20.8° MH: .8688 n: 2700 rpm v/u: .242 ϕ : .0° T: 287.9 K





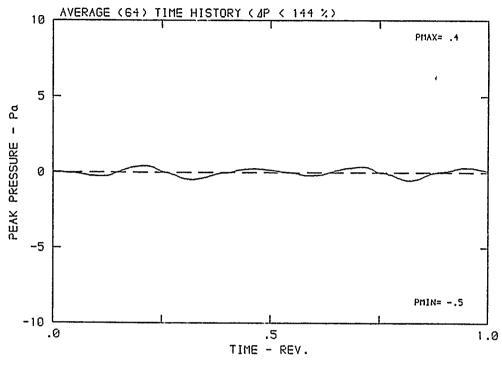
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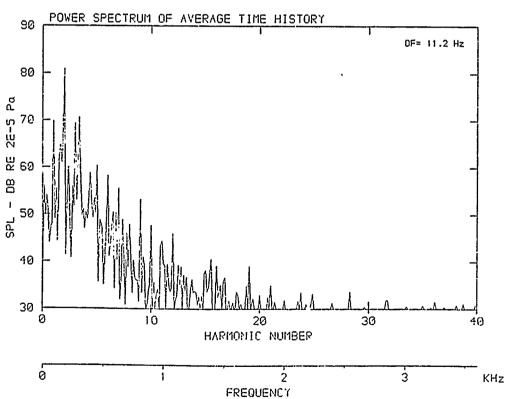




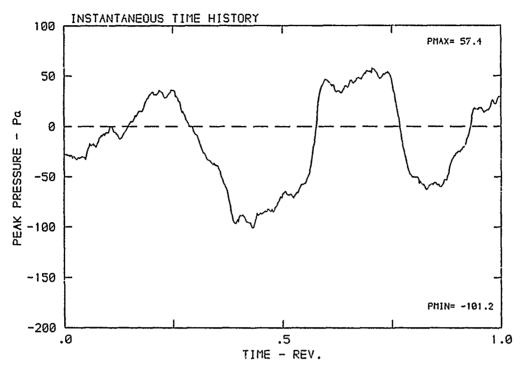
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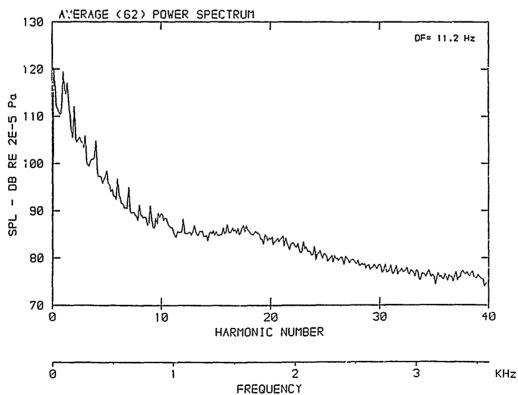
 $\beta\colon\,20.8^{\circ}\,$ MH: .8688 n: 2700 rpm v/u: .242 $\varphi\colon\,.0^{\circ}\,$ T: 287.9 K



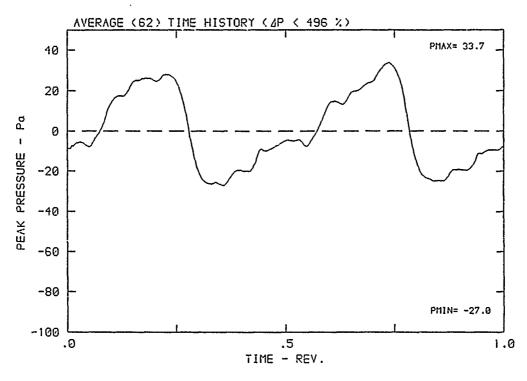


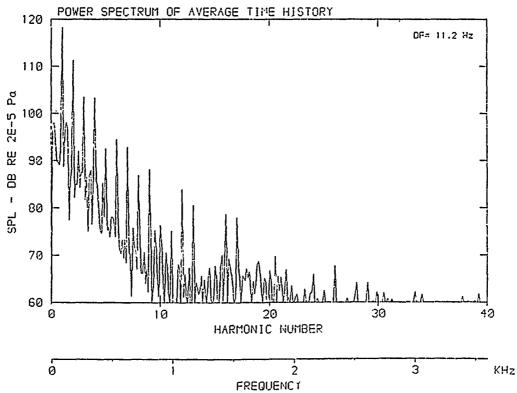
β: 20.8° MH: .8688 n: 2700 rpm v/u: .242 φ: .0° T: 287.9 K





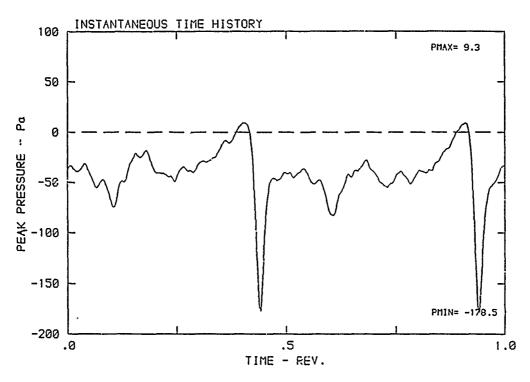
 $\beta\colon\thinspace 20.8^{o}$ MH: .8688 n: 2700 rpm v/u: .242 $\varphi\colon\:.0^{o}$ T: 287.9 K

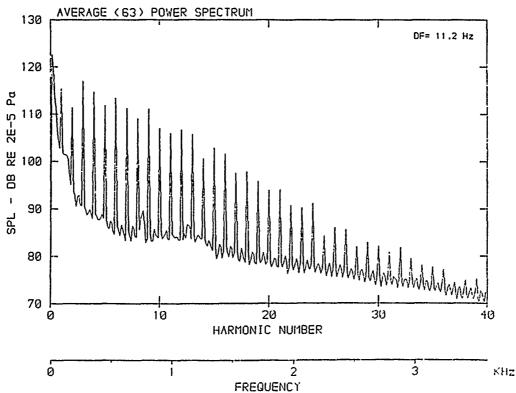




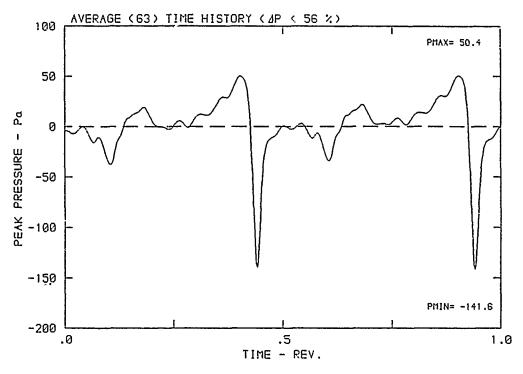
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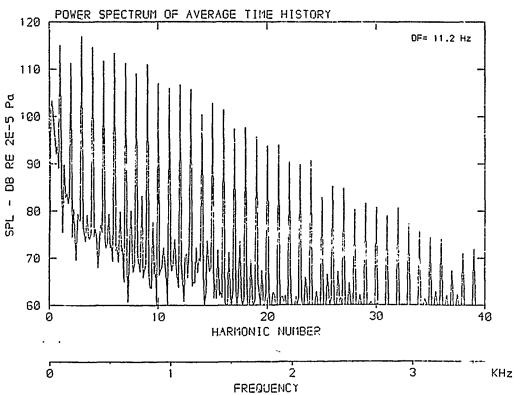
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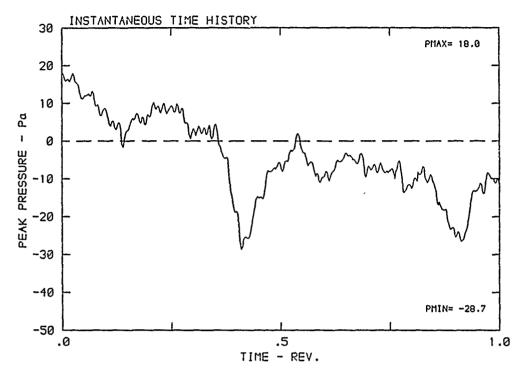


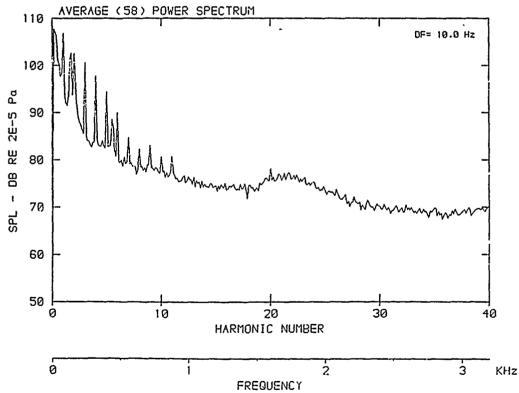
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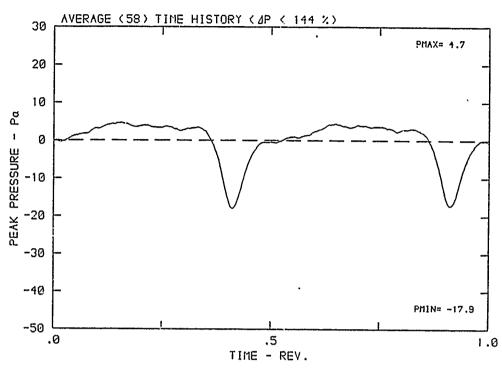


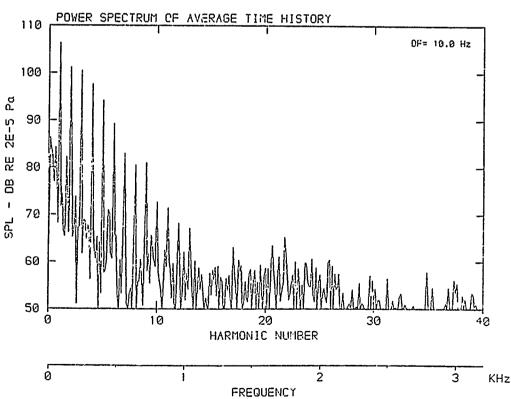
 $\beta\colon 20.8^{o}$ MH: .7809 n: 2400 rpm v/u: .302 $\varphi\colon .0^{o}$ T: 290.3 K



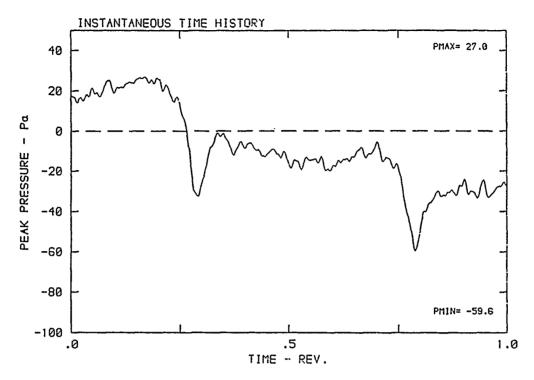


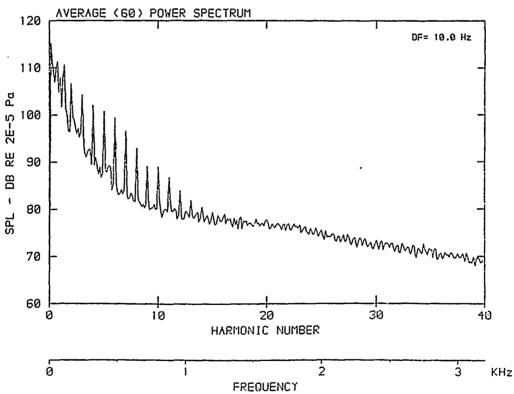
 β : 20.8° MH: .7809 n: 2400 rpm v/u: .302 ϕ : .0° T: 290.3 K



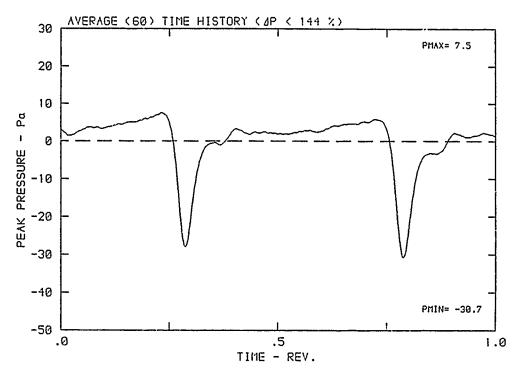


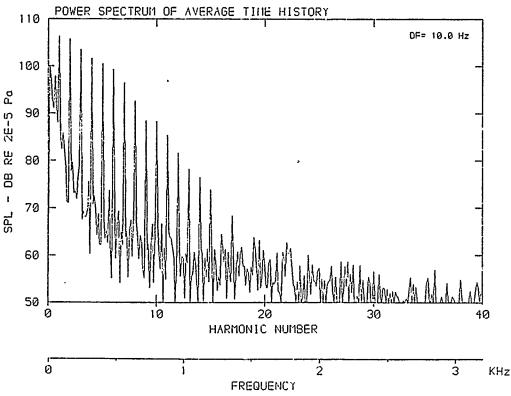
 β : 20.8° MH: .7809 n: 2400 rpm v/u: .302 ϕ : .0° T: 290.3 K



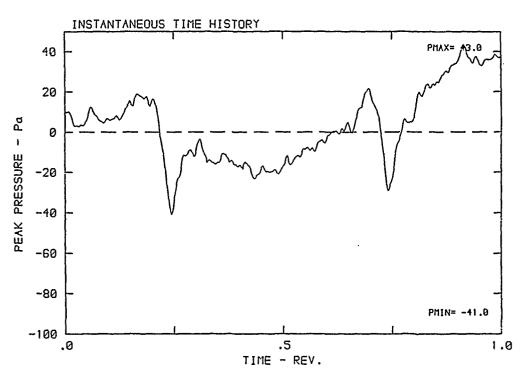


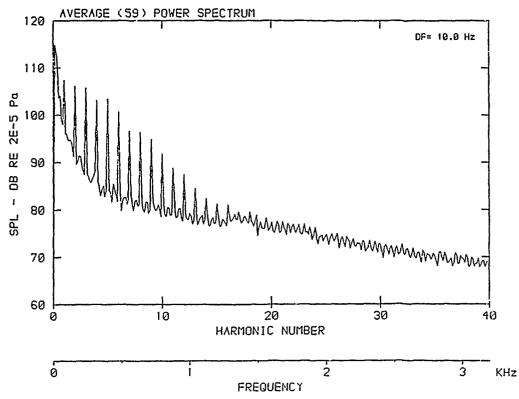
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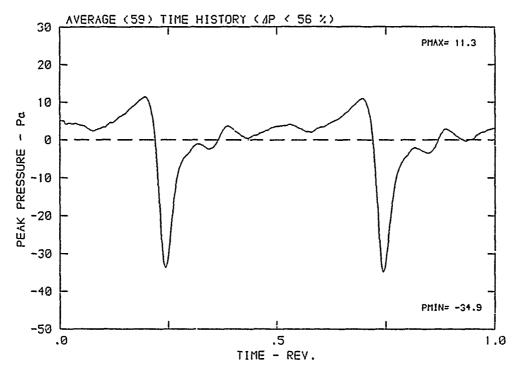
 β : 20.8° MH: .7809 n: 2400 rpm v/u: .302 ϕ : .0° T: 290.3 K

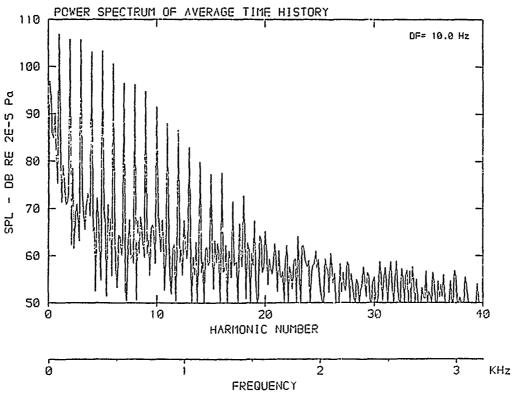




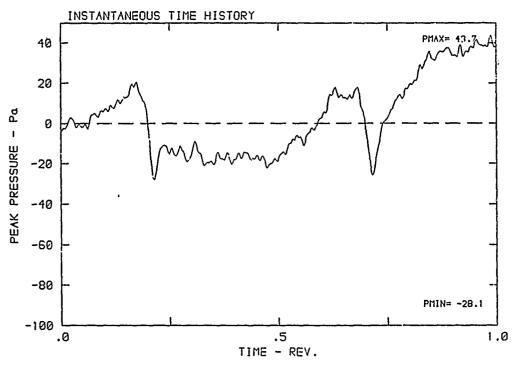
2210 DESCRIPTION OF THE PROPERTY OF THE PROPER

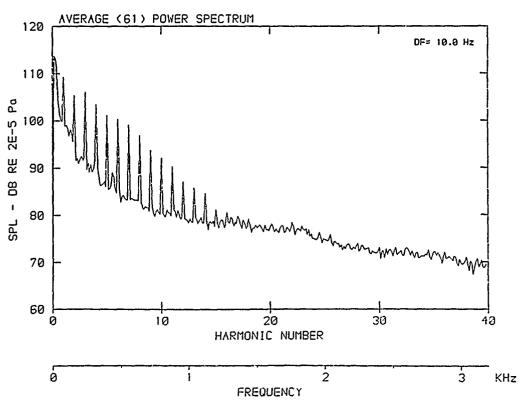
 β : 20.8° MH: .7809 n: 2400 rpm v/u: .302 ϕ : .0° T: 290.3 K



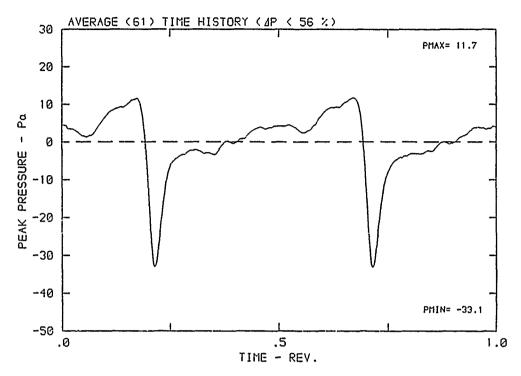


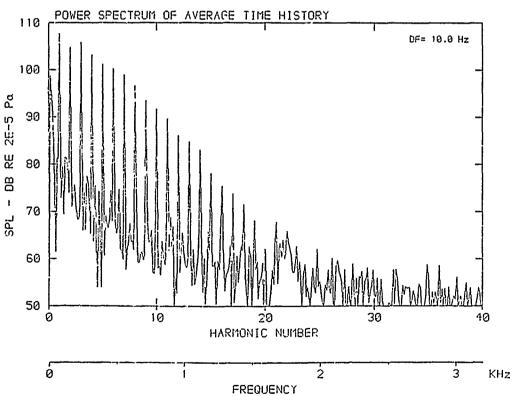
 $\beta\colon\,20.8^{\circ}\,$ MH: .7809 n: 2400 rpm v/u: .302 $\varphi\colon\,.0^{\circ}\,$ T: 290.3 K



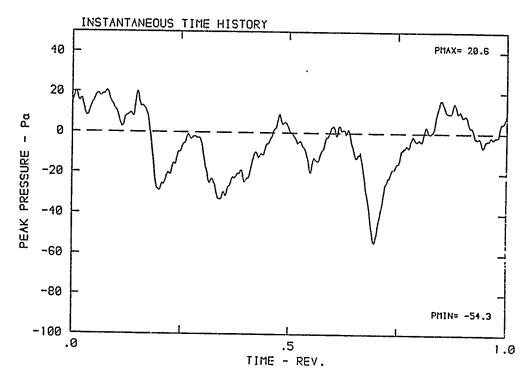


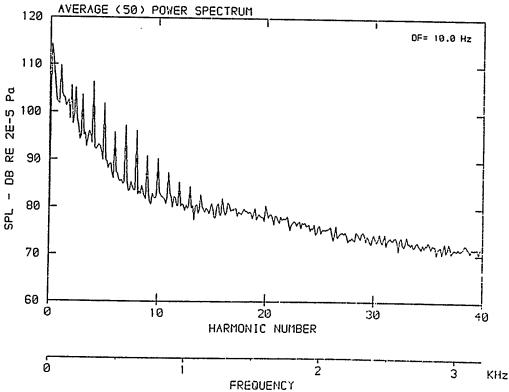
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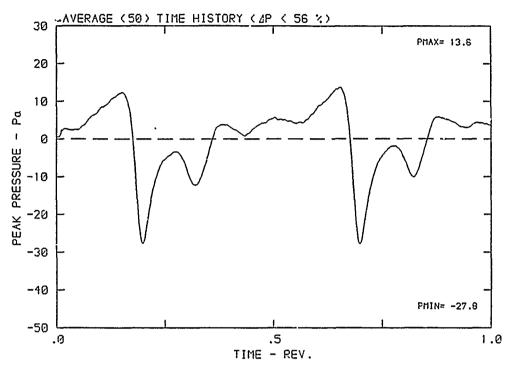


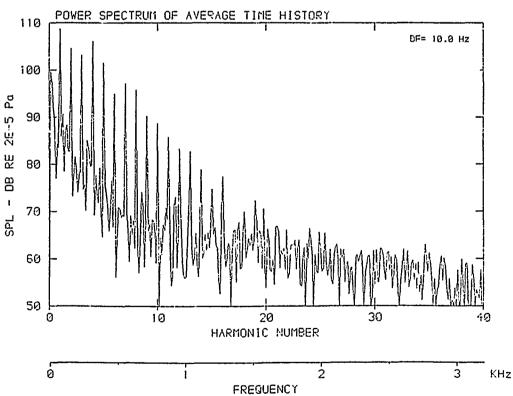
 β : 20.8° NH: .7809 n: 2400 rpm v/u: .302 ϕ : .0° T: 290.3 K



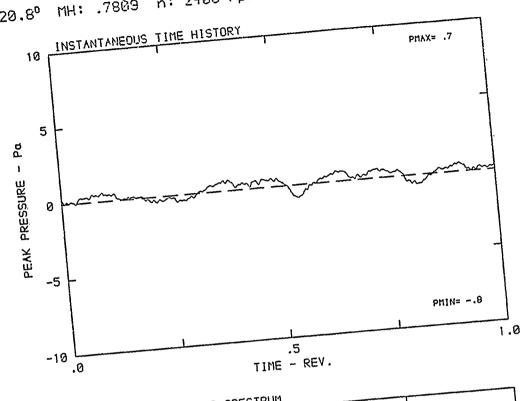


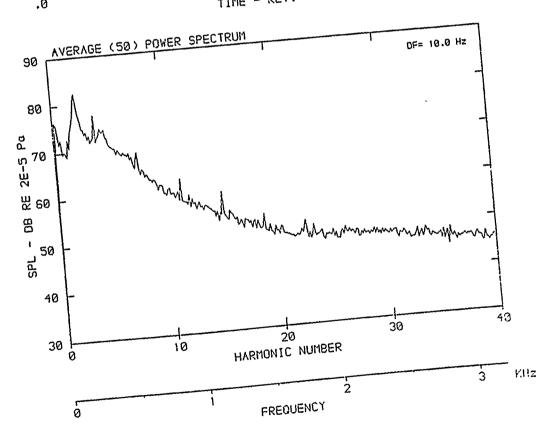
 β : 20.8° MH: .7809 n: 2400 rpm v/u: .302 ϕ : .0° T: 290.3 K





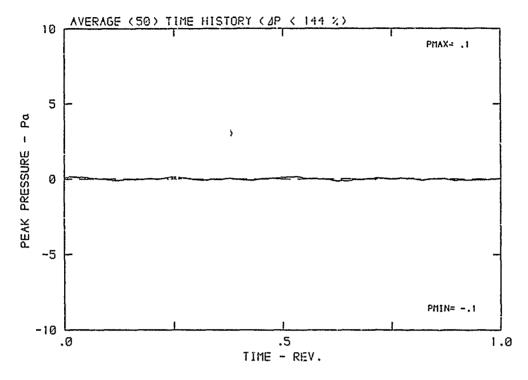
T: 290.3 K n: 2400 rpm MH: .7809 β: 20.8°

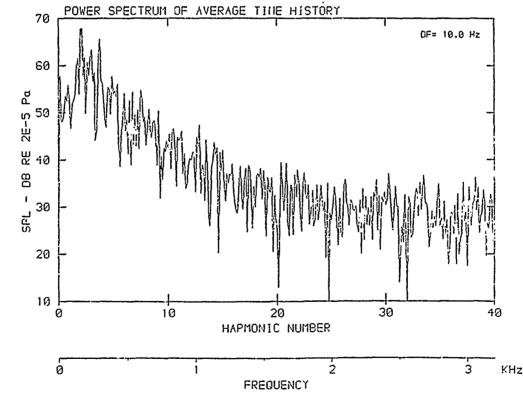




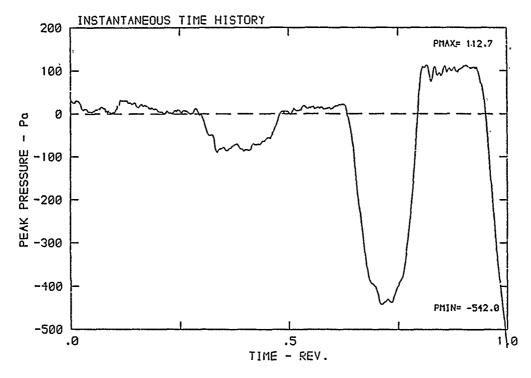
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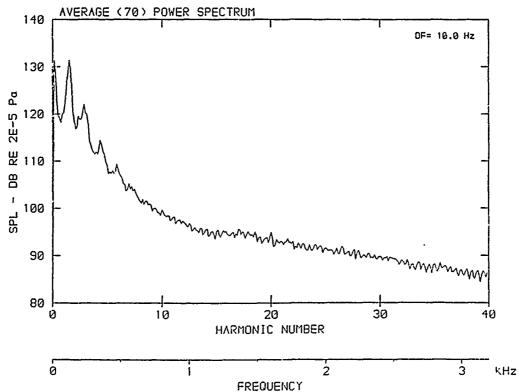
CONTRACTOR STREET, STR



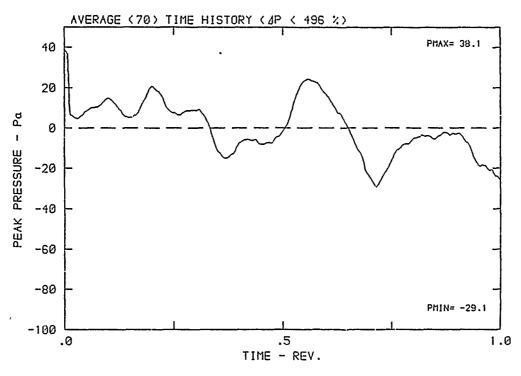


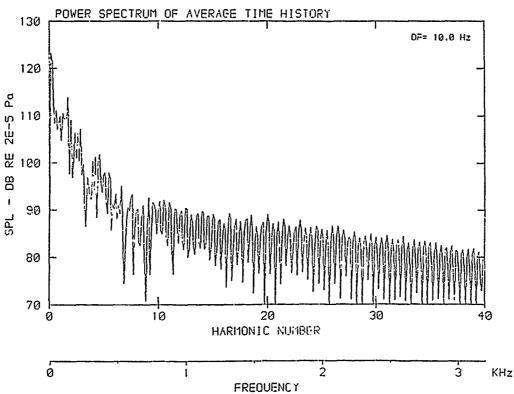
 $β: 20.8^{\circ}$ MH: .7809 n: 2400 rpm ν/u: .302 ψ: .0° T: 290.3 K



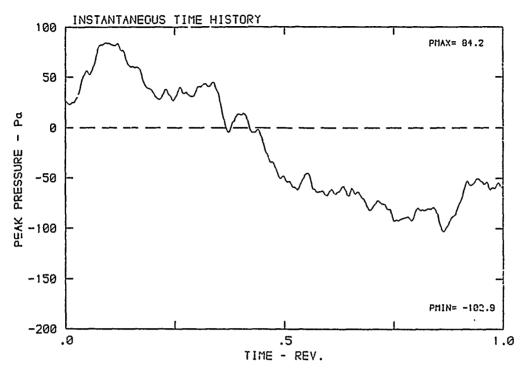


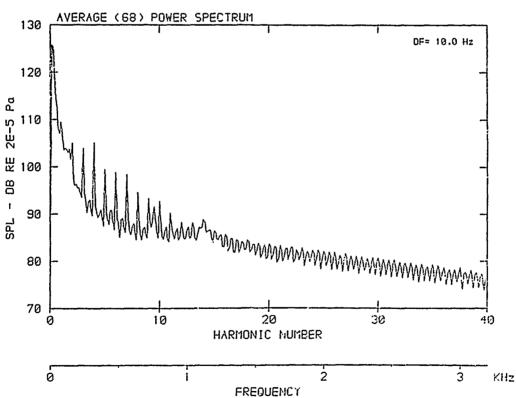
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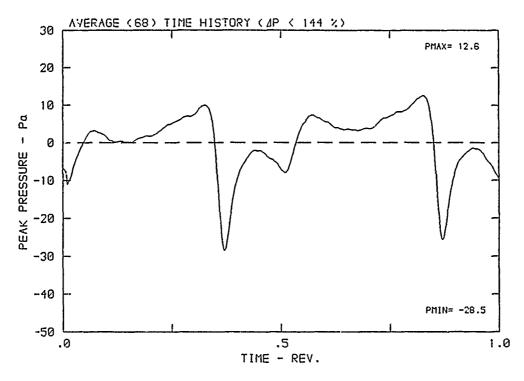


 β : 20.8° MH: .7809 n: 2400 rpm v/u: .302 ϕ : .0° T: 290.3 K

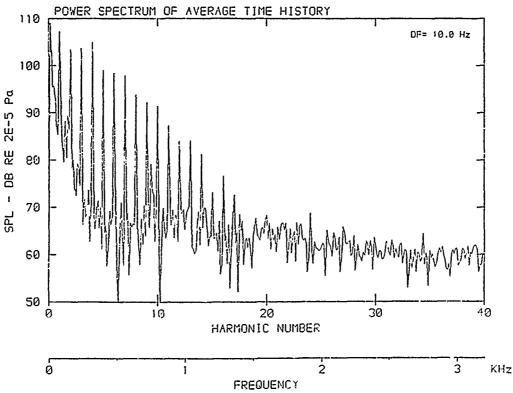




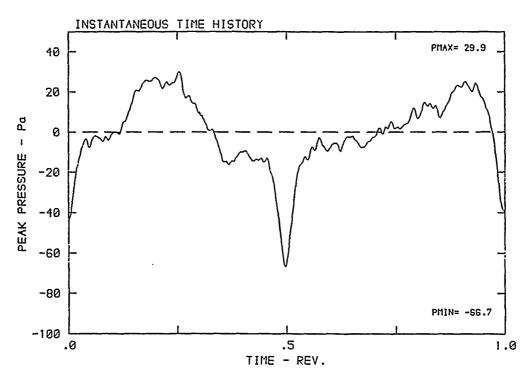
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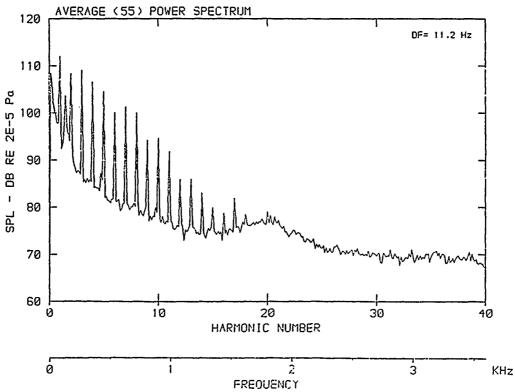


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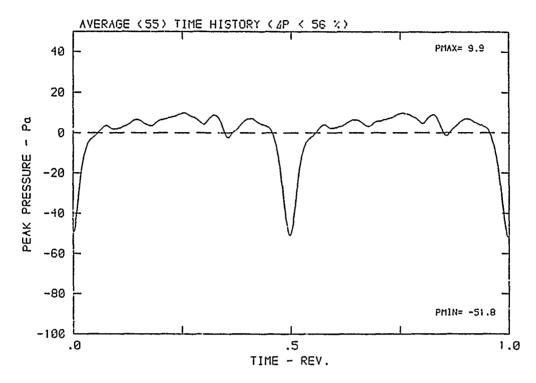


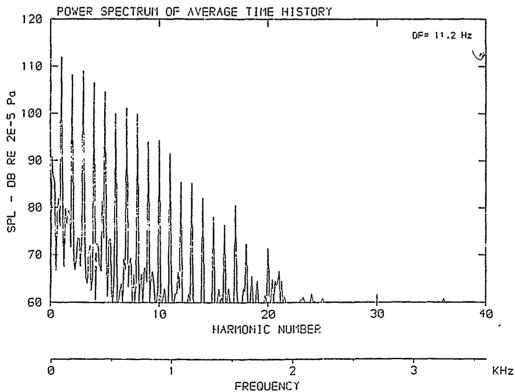
β: 20.8° MH: .8720 n: 2700 rpm v/u: .268 φ: .0° T: 289.4 K



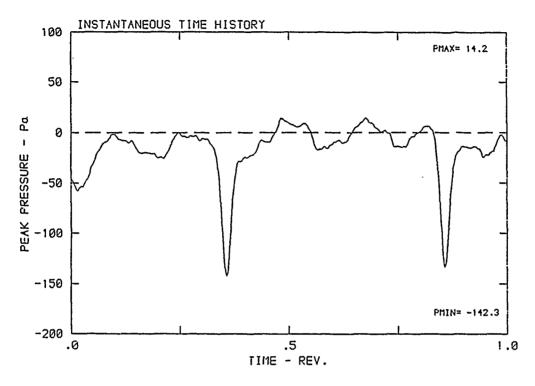


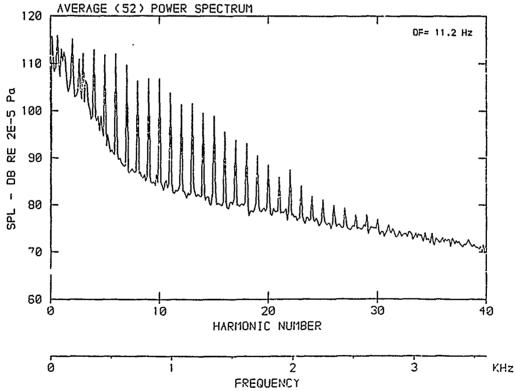
 $\beta\colon\,20.8^{o}\,$ MH: .8720 n: 2700 rpm v/u: .268 $\psi\colon\,.0^{o}\,$ T: 289.4 K





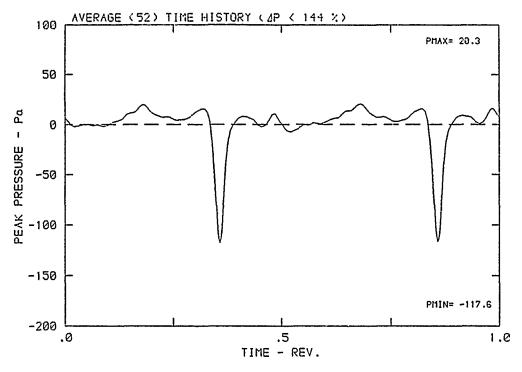
 $β: 20.8^{\circ}$ MH: .8720 n: 2700 npm v/u: .268 φ: .0° T: 289.4 K

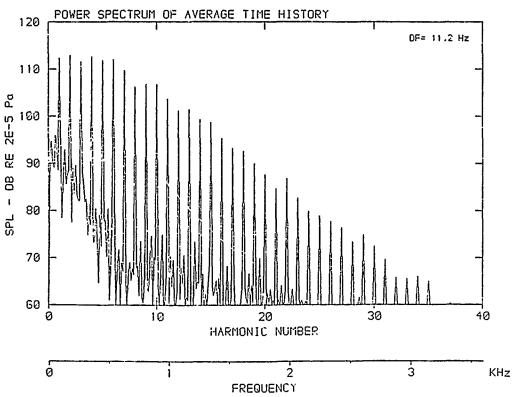




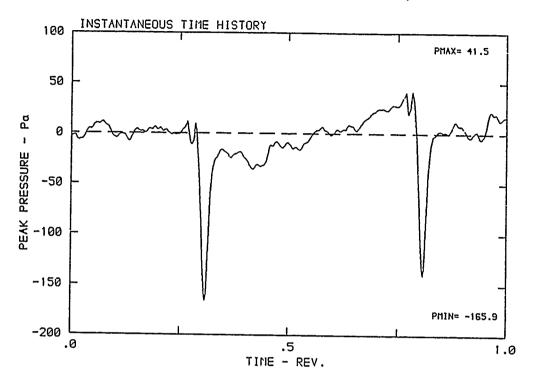
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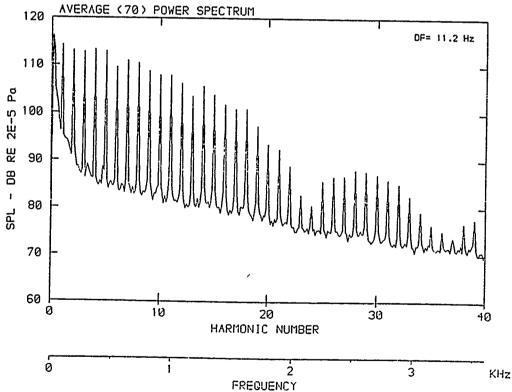
 β : 20.8° MH: .8720 n: 2700 rpm v/u: .268 ϕ : .0° T: 289.4 K



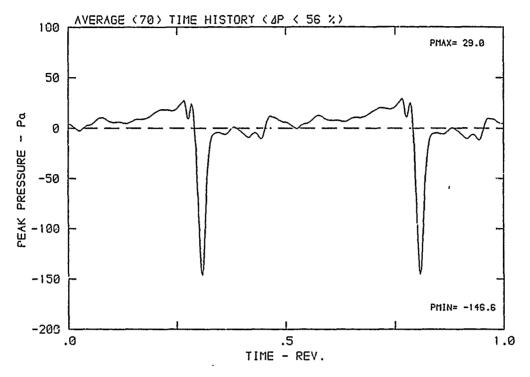


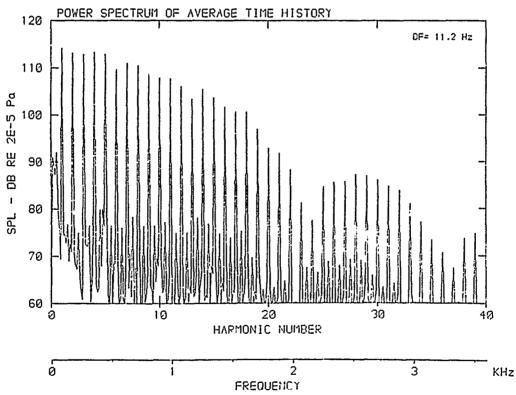
 β : 20.8° MH: .8720 n: 2700 rpm v/u: .268 ϕ : .0° T: 289.4 K





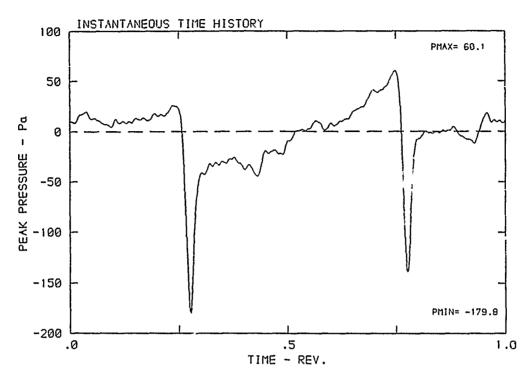
 β : 20.8° MH: .8720 n: 2700 rpm V/u: .268 ϕ : .0° T: 289.4 K

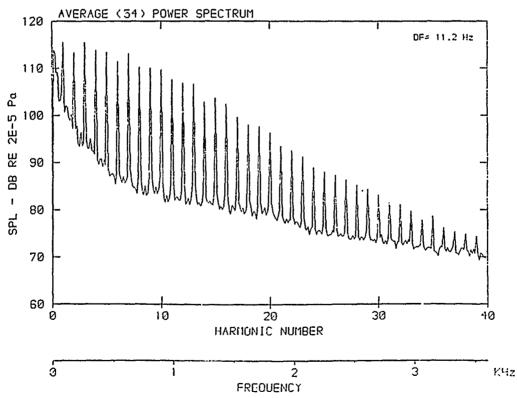




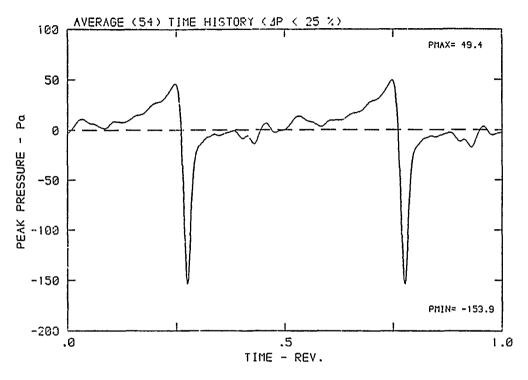
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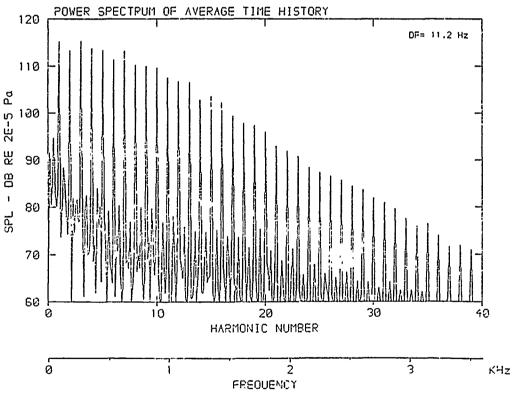
 β : 20.8° MH: .8720 n: 2700 rpm v/u: .268 γ : .0° T: 289.4 K



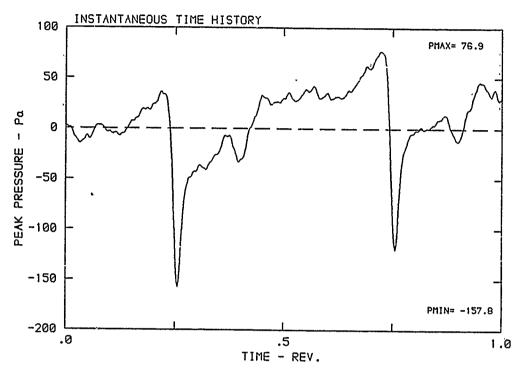


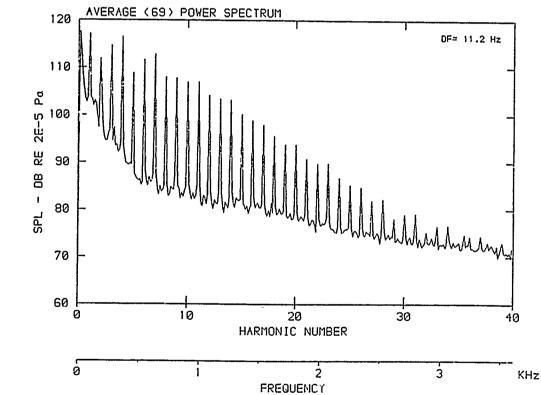
 $β: 20.8^{\circ}$ MH: .8720 n: 2700 rpm v/u: .268 φ: .0° T: 289.4 k



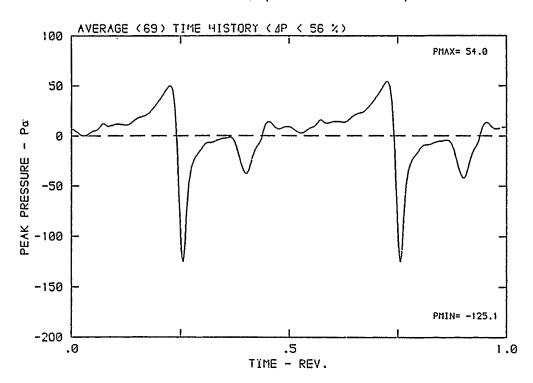


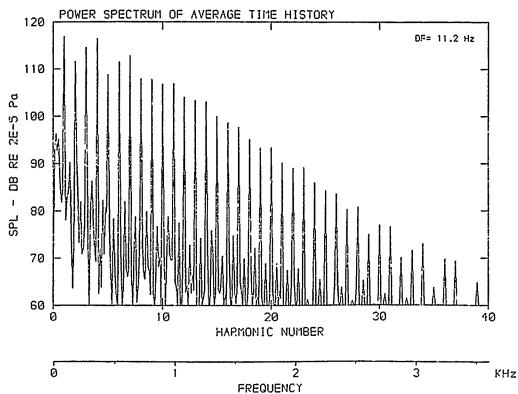
 β : 20.8° MH: .8720 n: 2700 rpm v/u: .268 ϕ : .0° T: 289.4 K



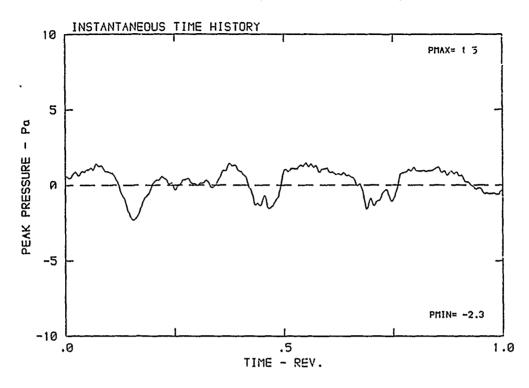


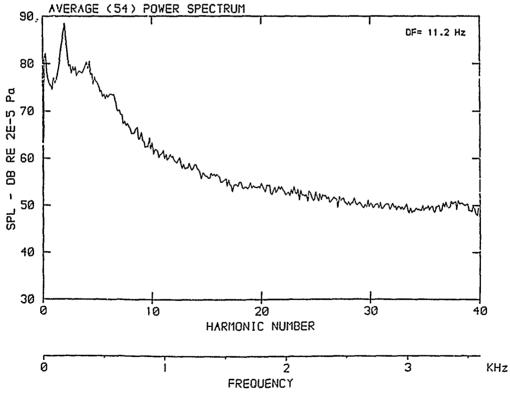
 β : 20.8° MH: .8720 n: 2700 rpm v/u: .268 ϕ : .0° T: 289.4 K



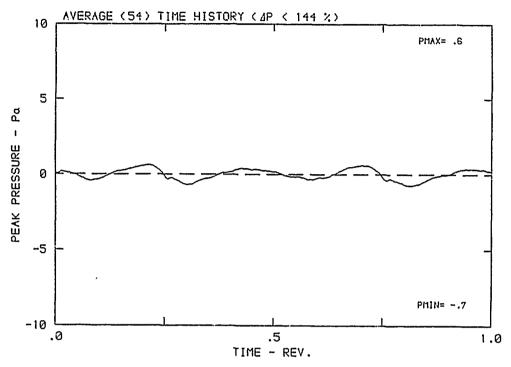


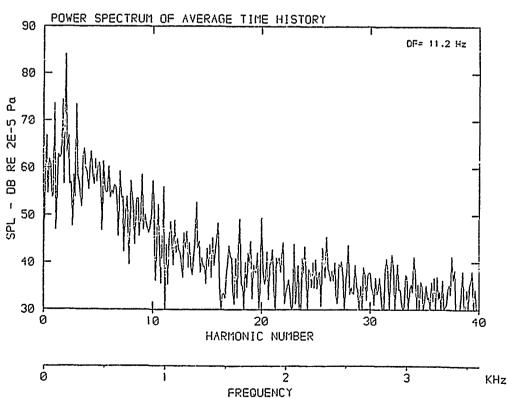
 $β: 20.8^{\circ}$ MH: .8720 n: 2700 rpm ν/u: .268 ψ: .0° T: 289.4 K





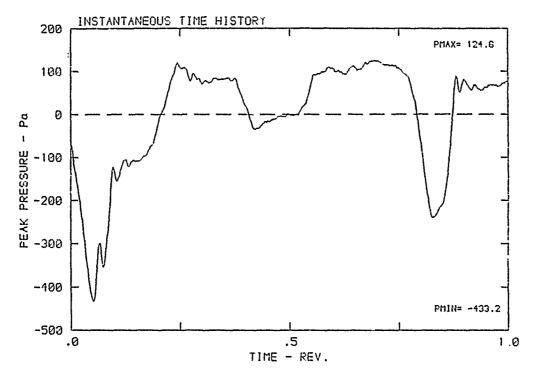
 $\beta\colon\,20.8^{o}$ MH: .8720 n: 2700 rpm v/u: .268 $\varphi\colon\,.0^{o}$ T: 289.4 K

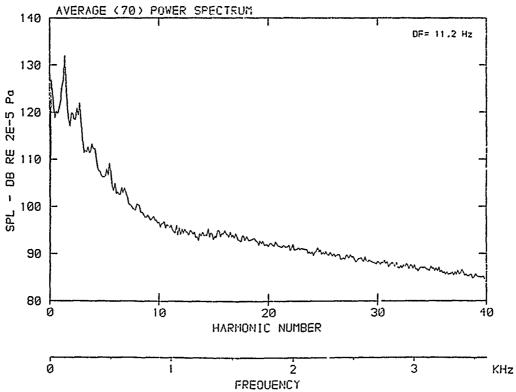




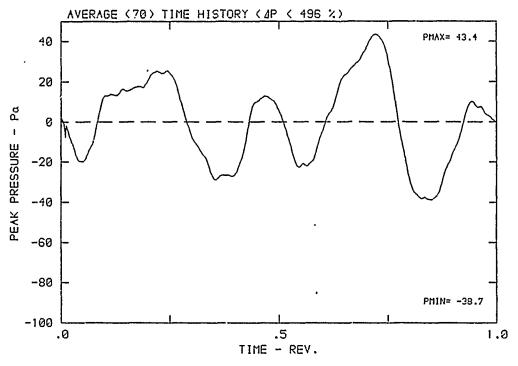
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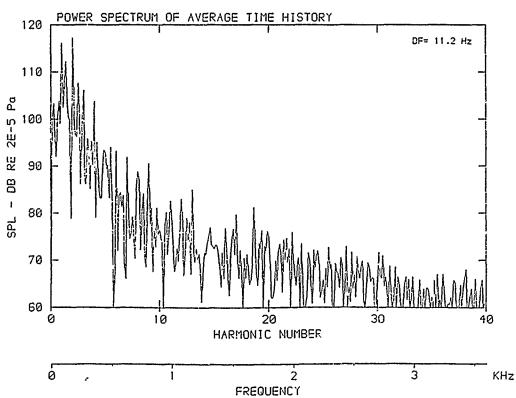
β: 20.8° MH: .8720 n: 2780 npm v/u: .268 φ: .0° T: 269.4°





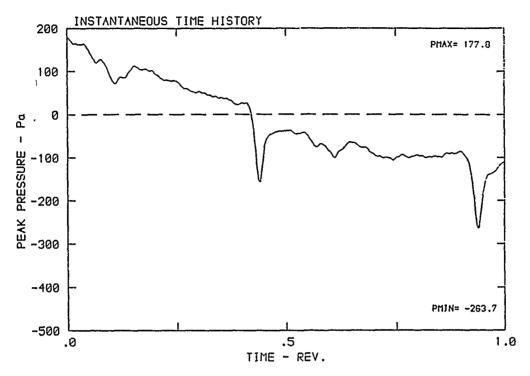
 $\beta\colon 20.8^{o}$ MH: .8720 n: 2700 rpm v/u: .268 $\varphi\colon .0^{o}$ T: 289.4 K

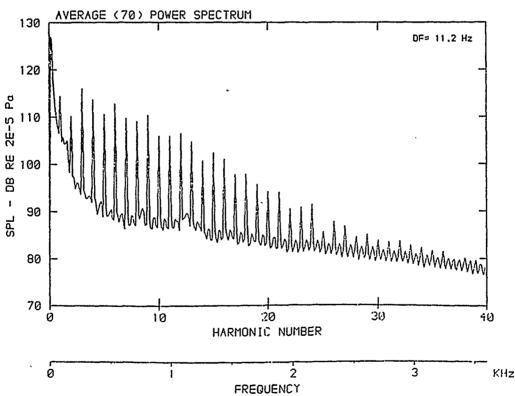




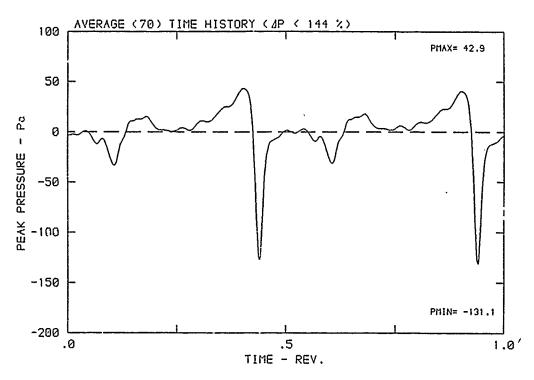
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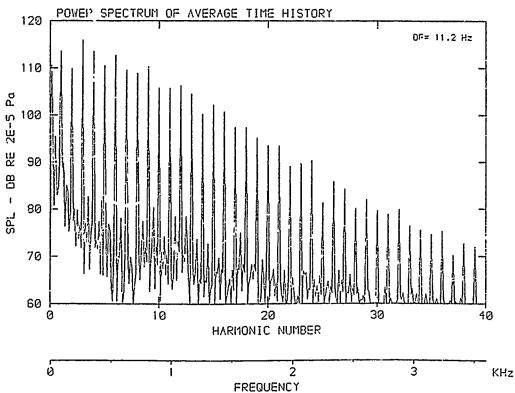
β: 20.8° MH: .8720 n: 2700 rpm v/u: .268 φ: .0° T: 289.4 K



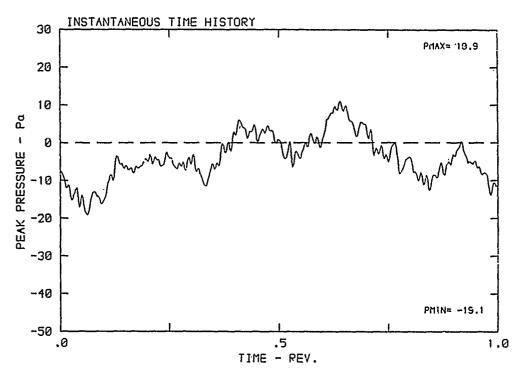


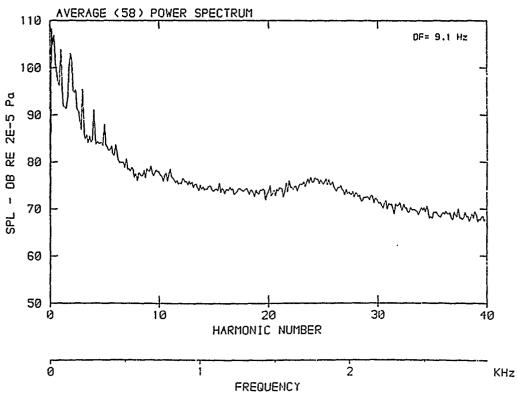
 β : 20.8° MH: .8720 n: 2700 rpm v/u: .268 ϕ : .0° T: 289.4 K





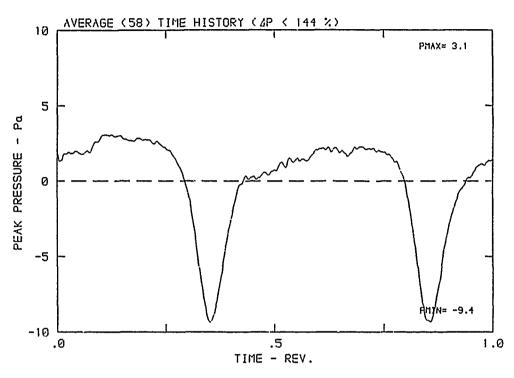
 $\beta\colon\,20.8^{o}$ MH: .7174 n: 2189 rpm v/u: .331 $\,\varphi\colon\,.0^{o}$ T: 291.0 K

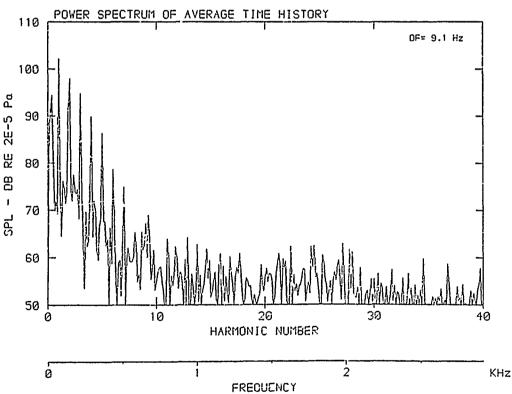




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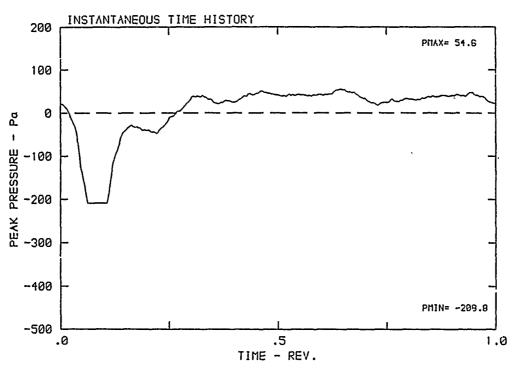
 β : 20.8° MH: .7174 n: 2189 rpm v/u: .331 ϕ : .0° T: 291.0 K

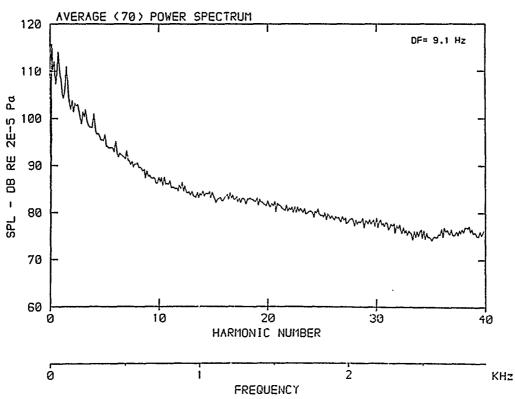




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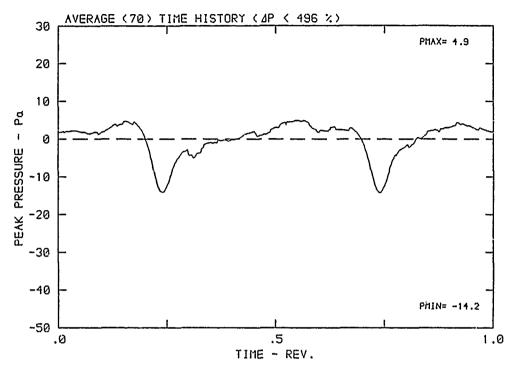
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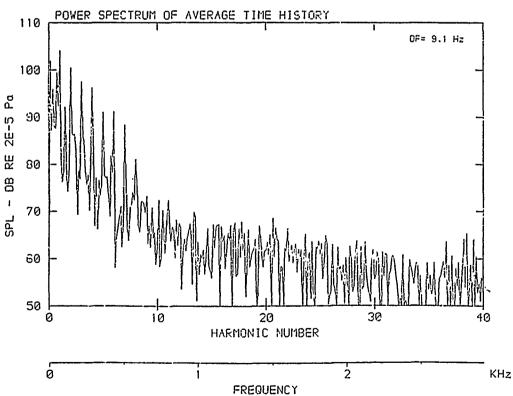




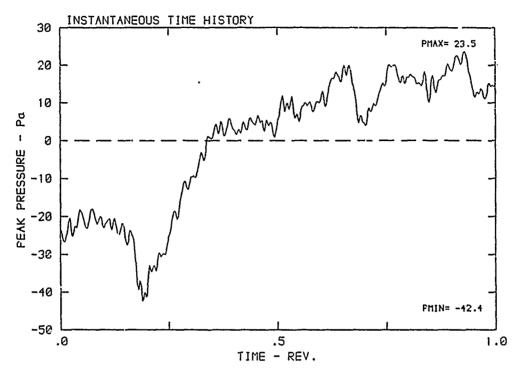
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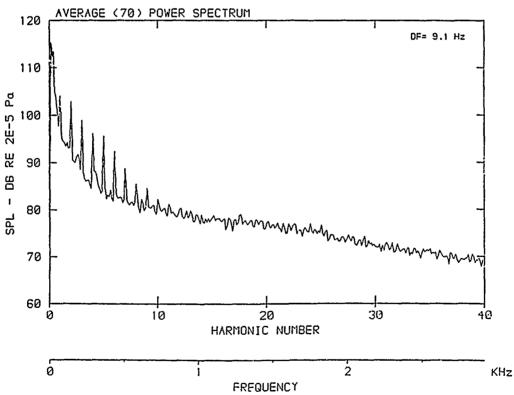
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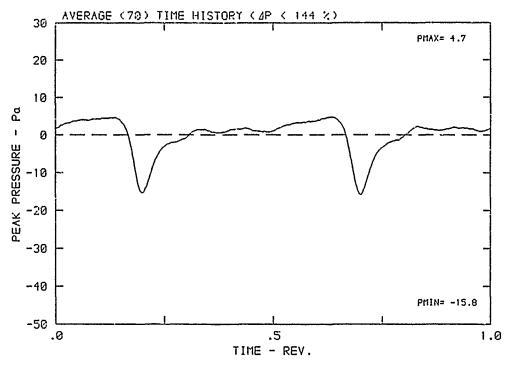


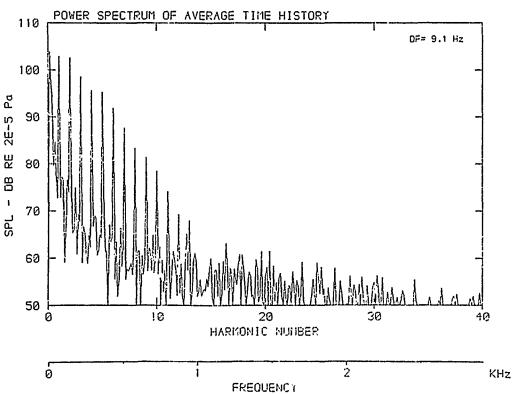
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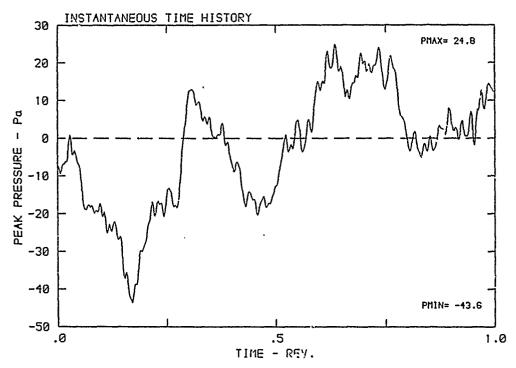


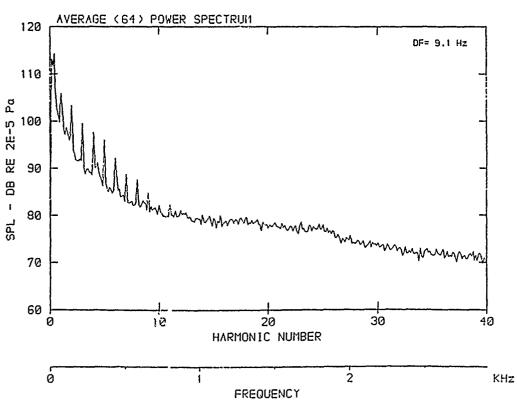
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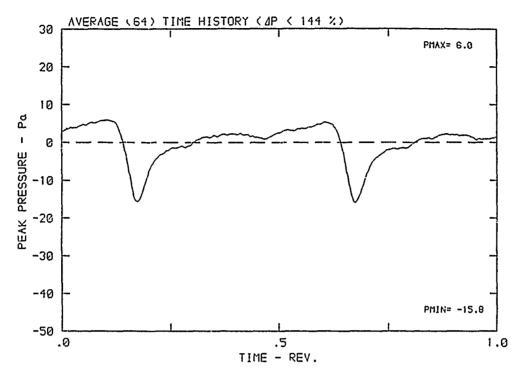


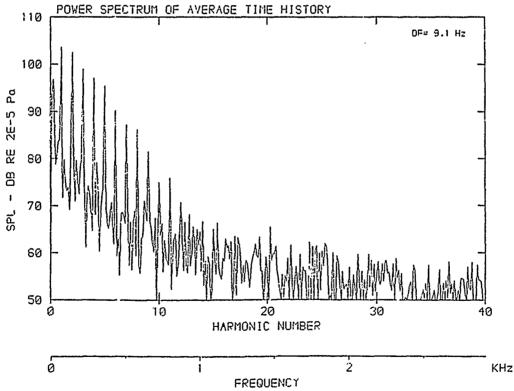
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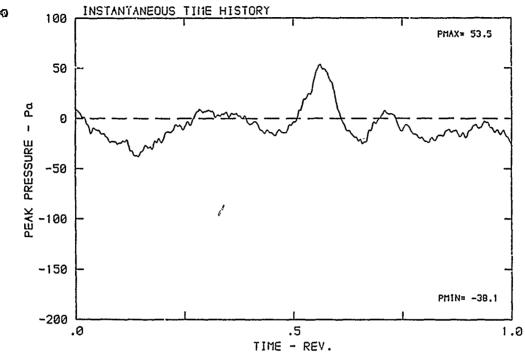


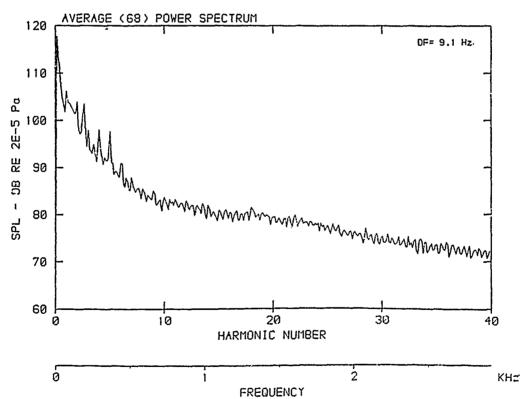
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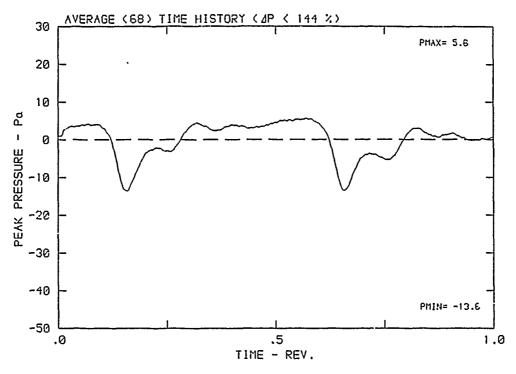


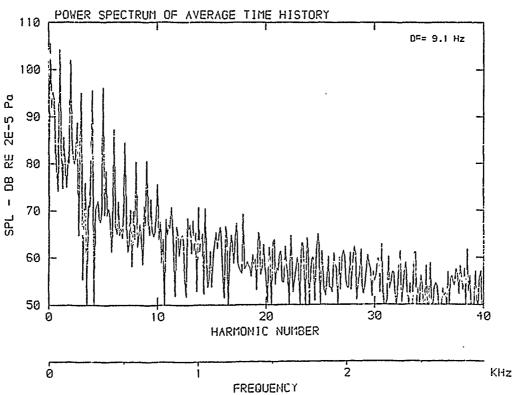
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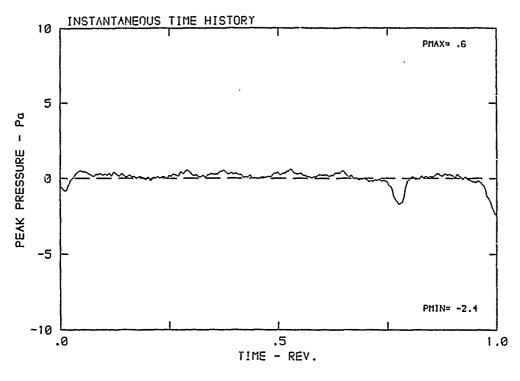
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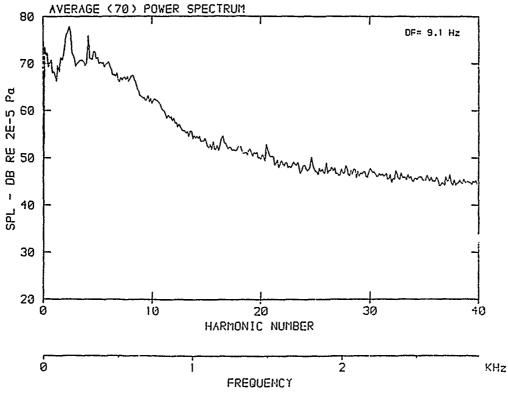




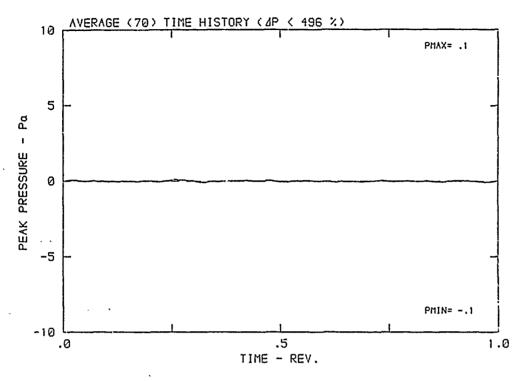
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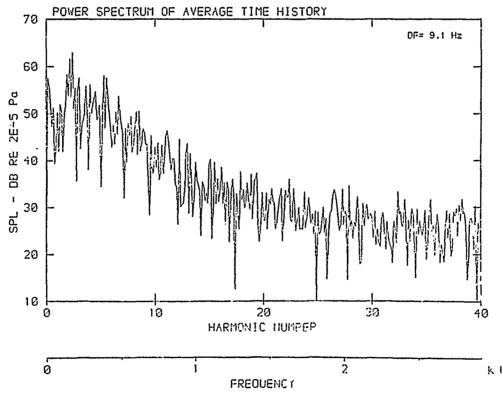
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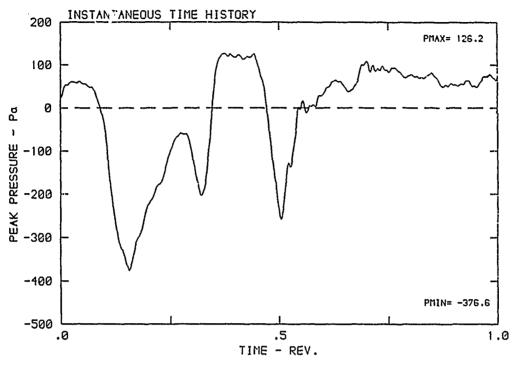


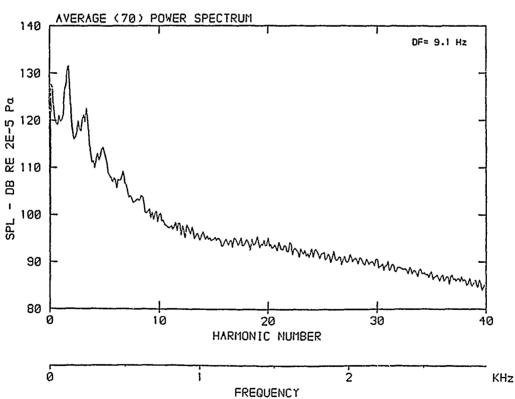
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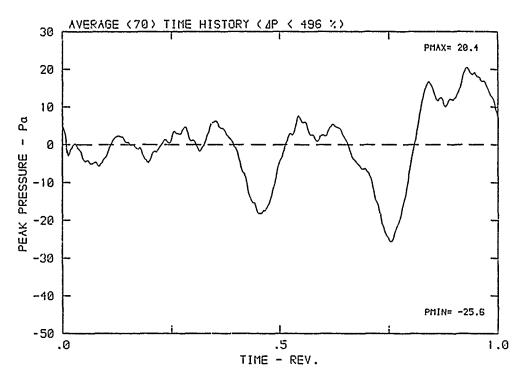


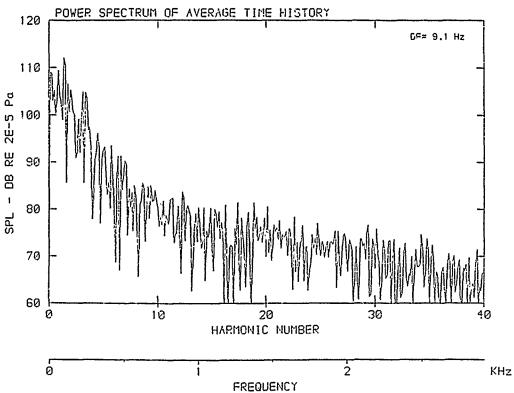
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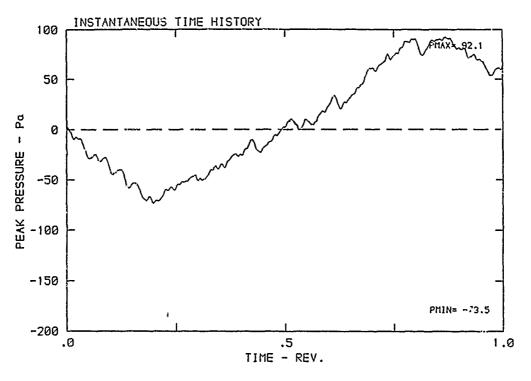


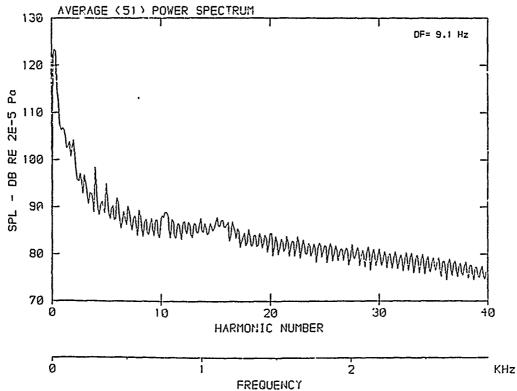
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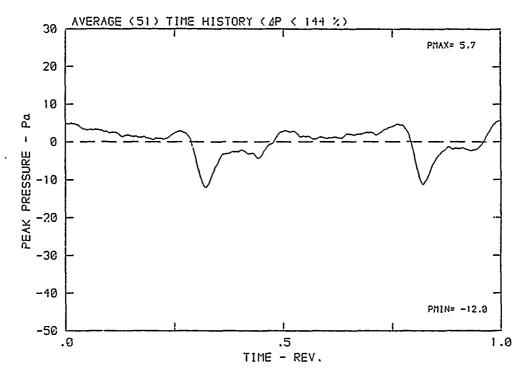
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β: 20.8° MH: .7174 n: 2189 rpm v/u: .331 φ: .0° T: 291.0 K

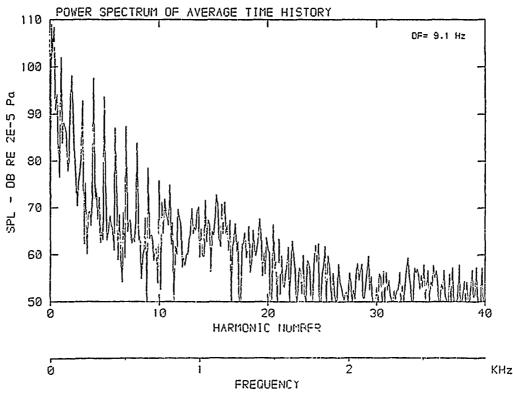




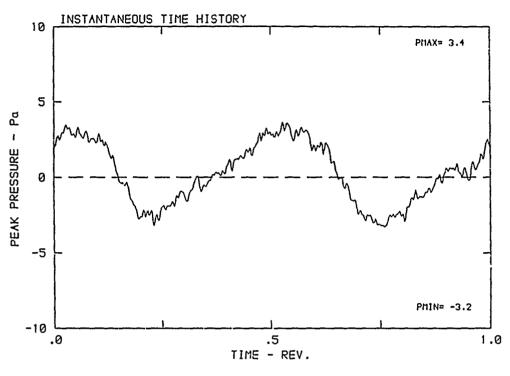
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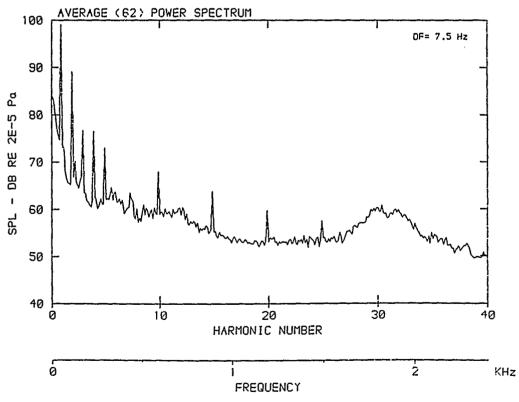
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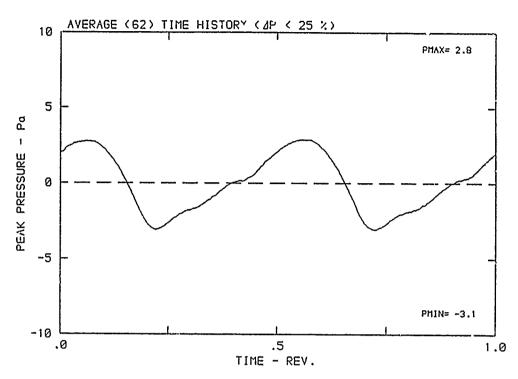


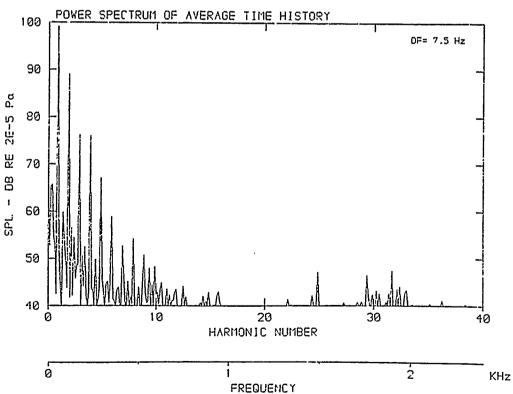
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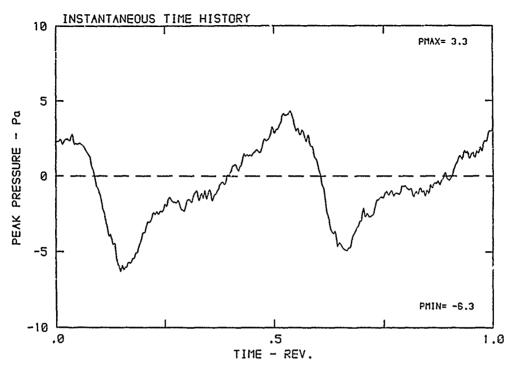


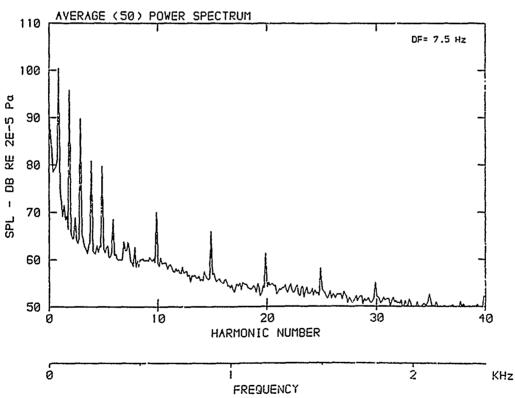
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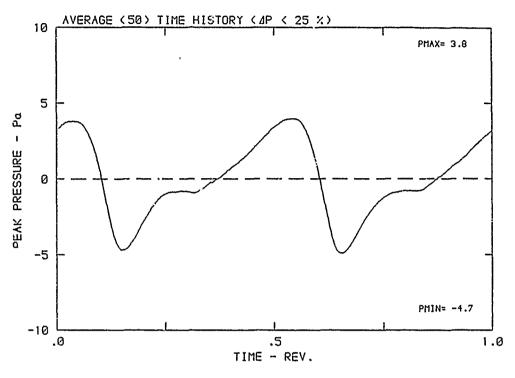


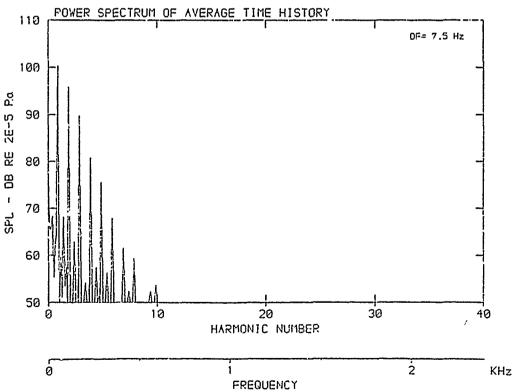
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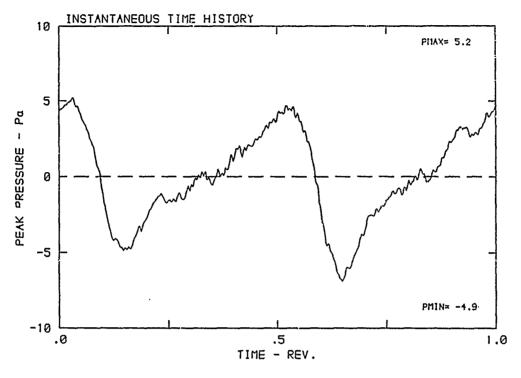


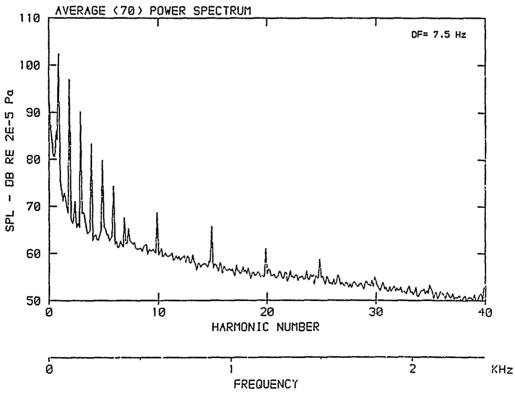
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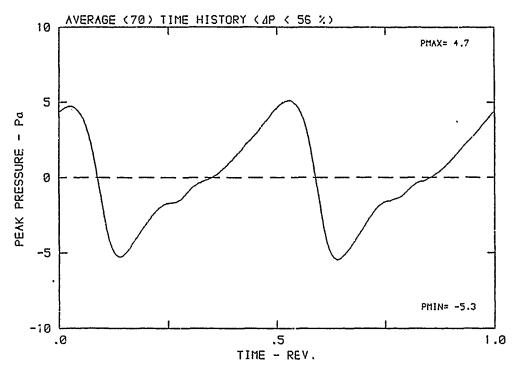


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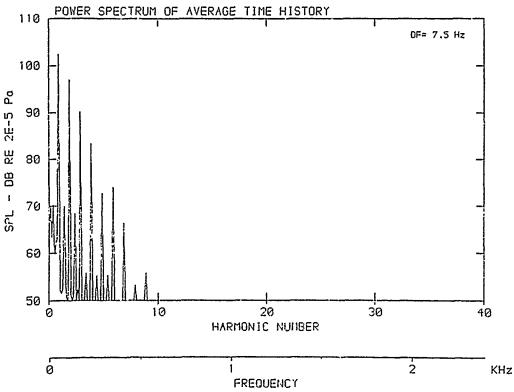




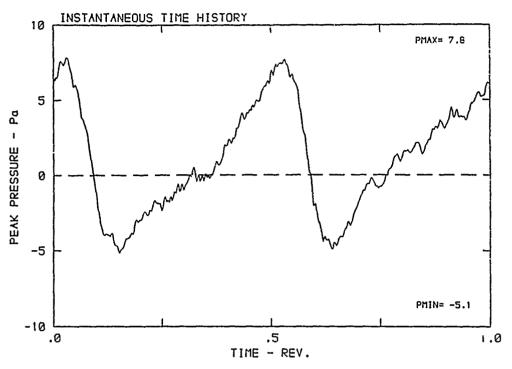
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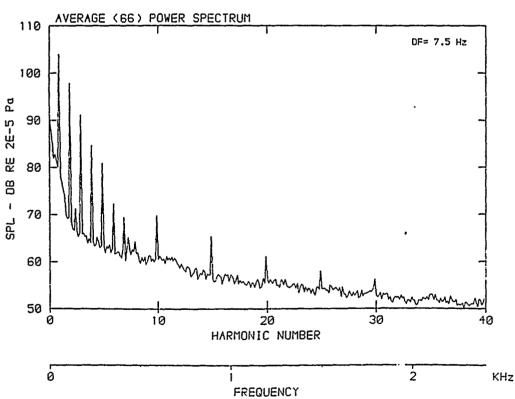


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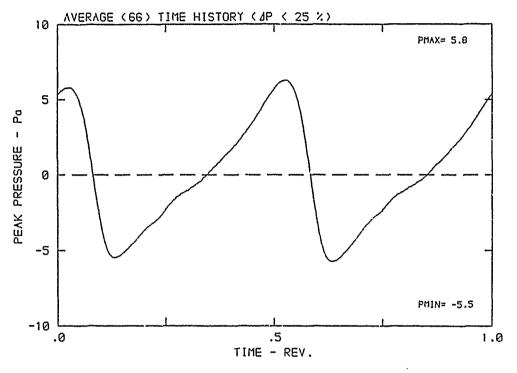


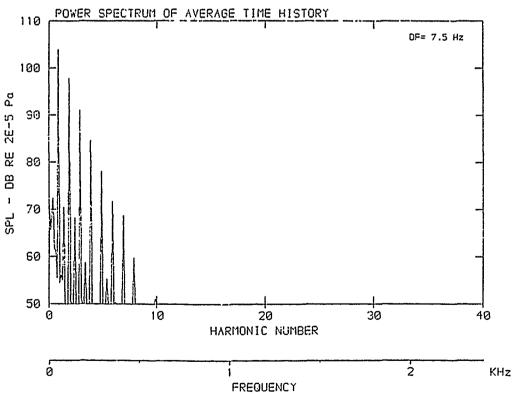
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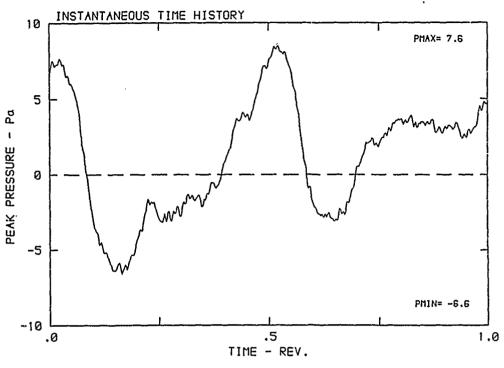
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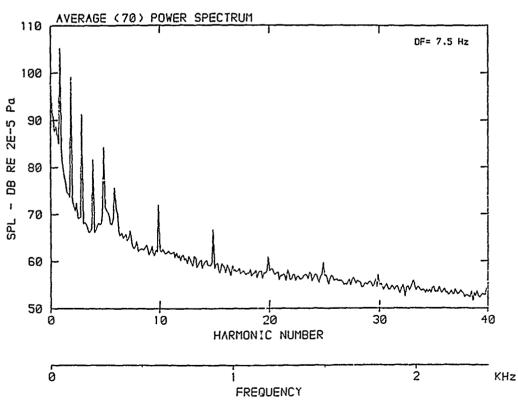




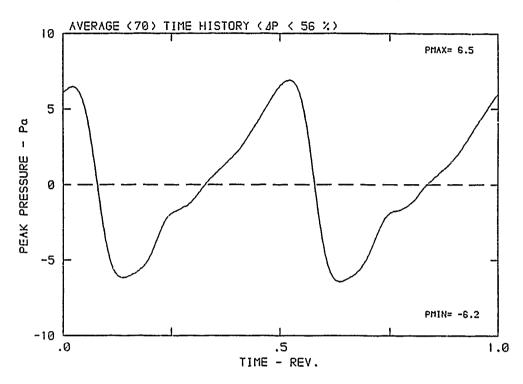
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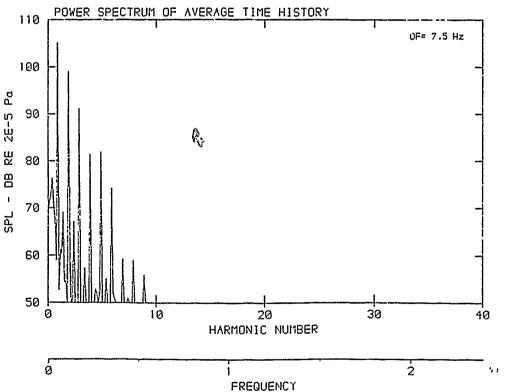
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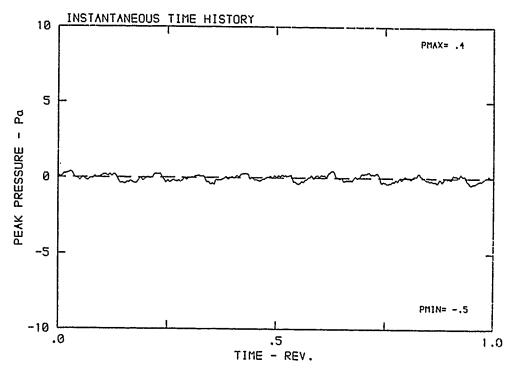
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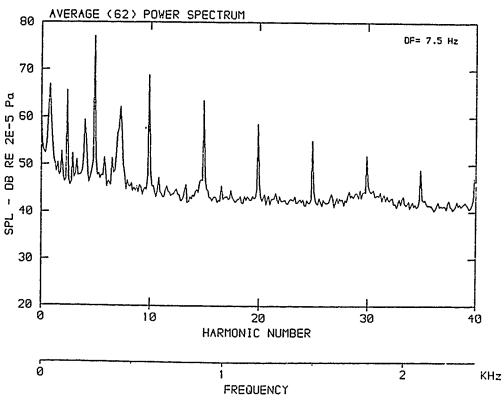


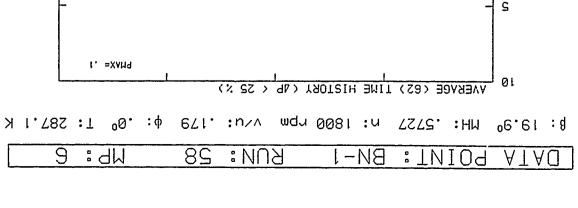


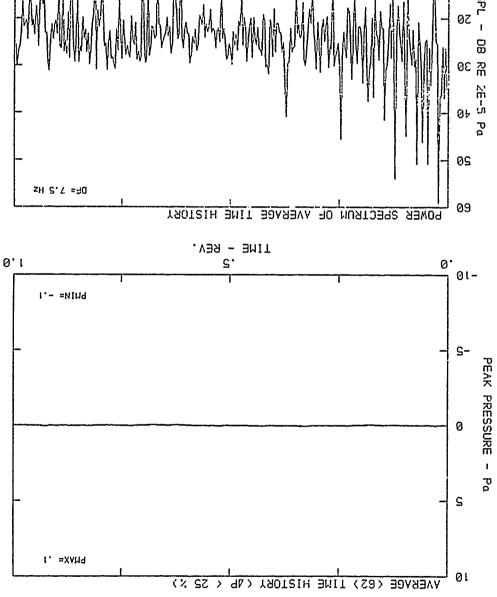
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FREQUENCY

HYBWONIC NUMBER

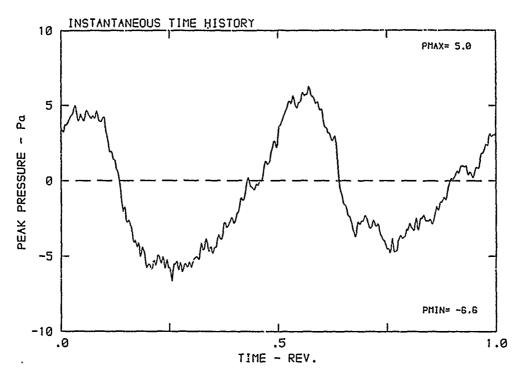
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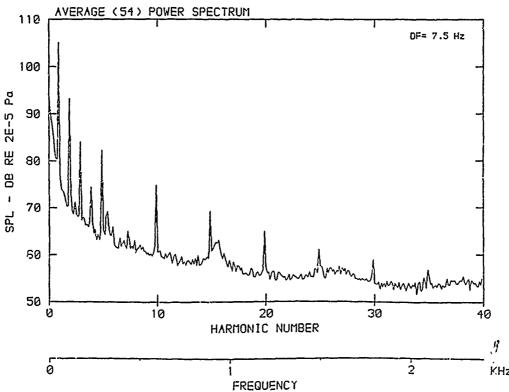
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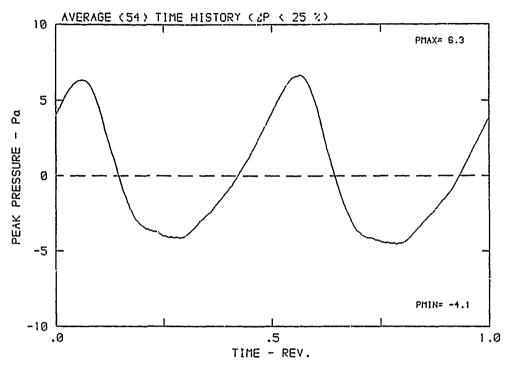
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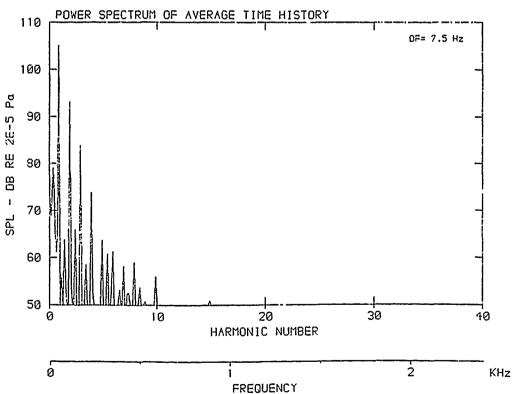
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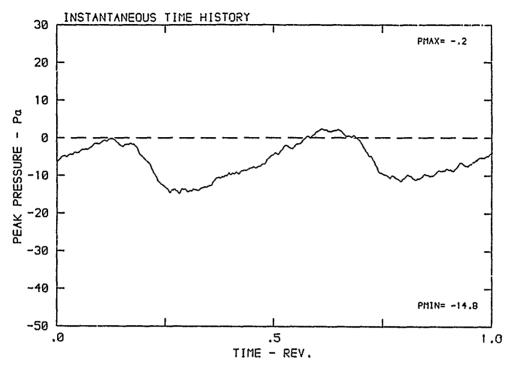


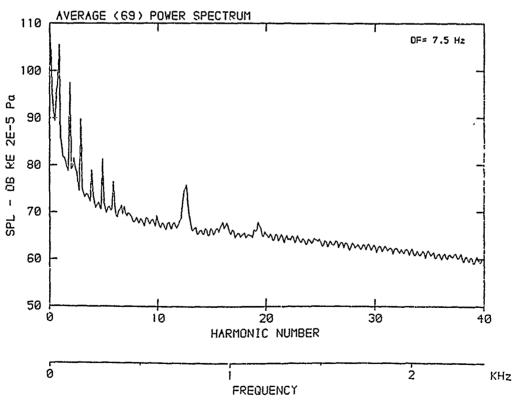
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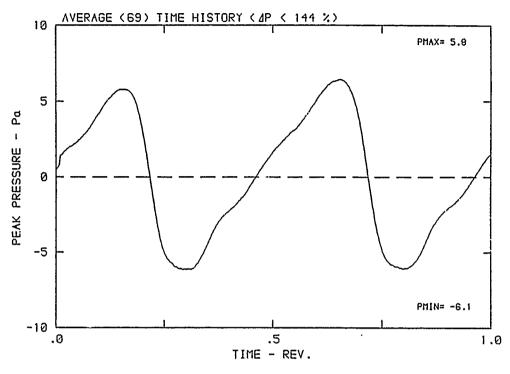


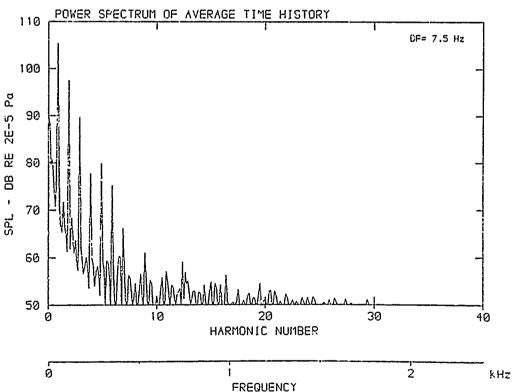
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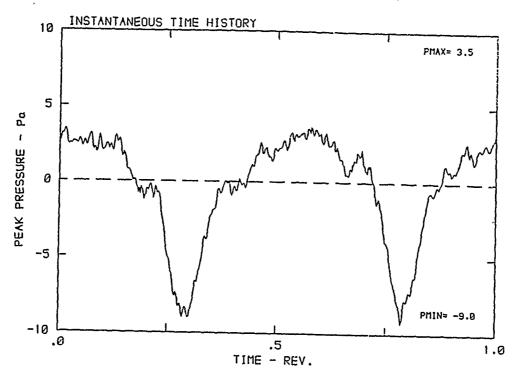


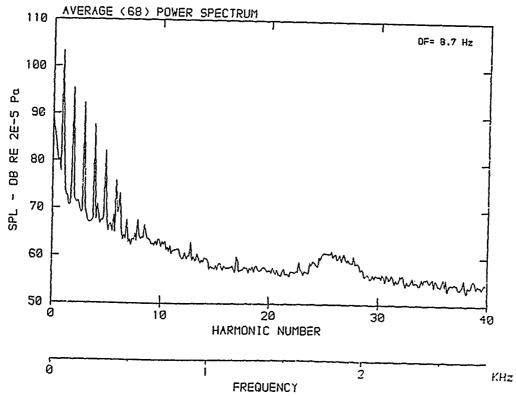
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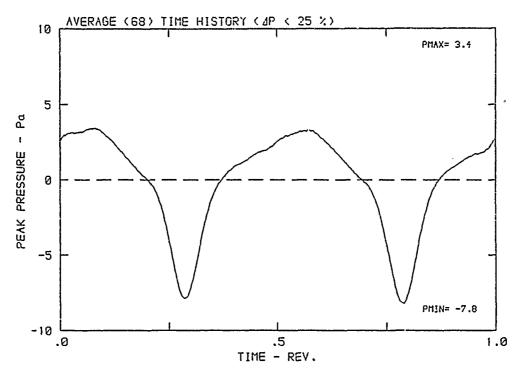


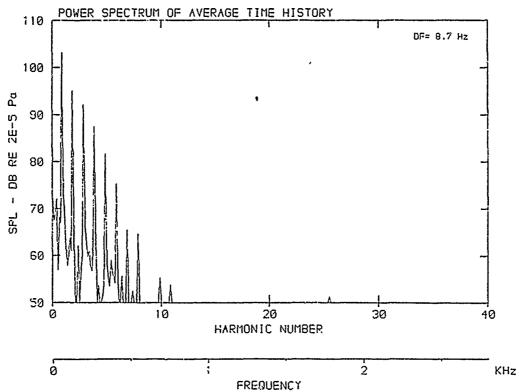
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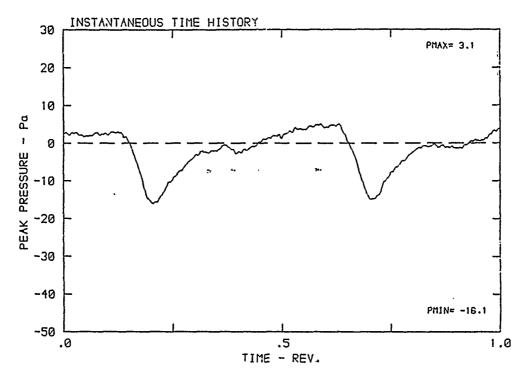
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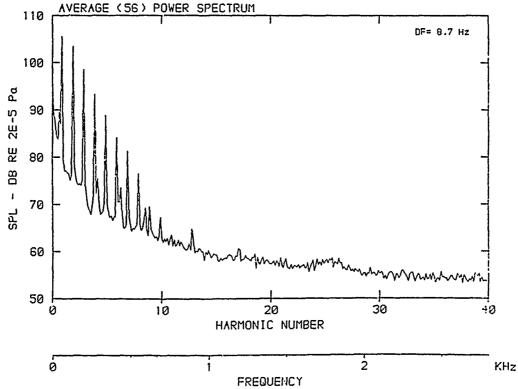




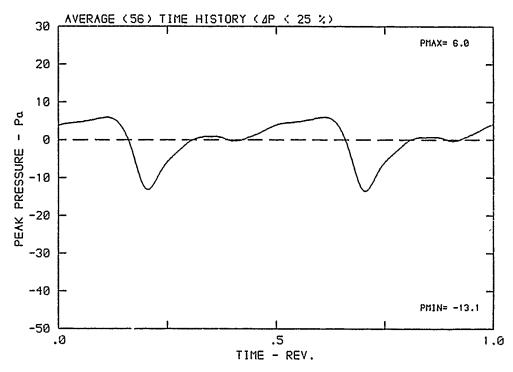
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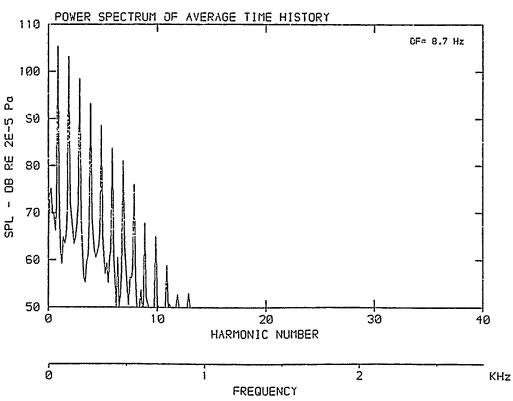
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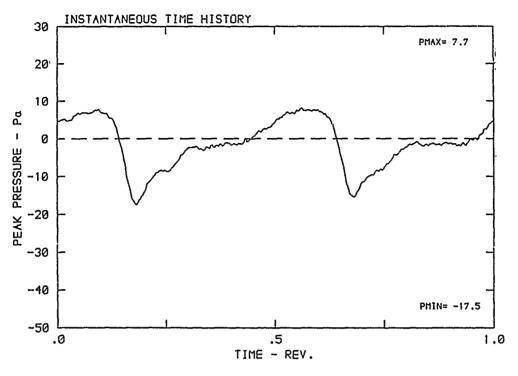


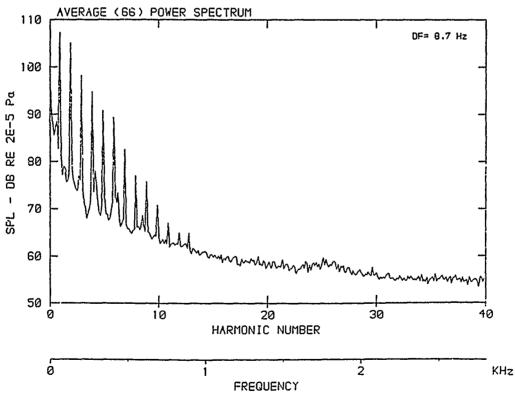
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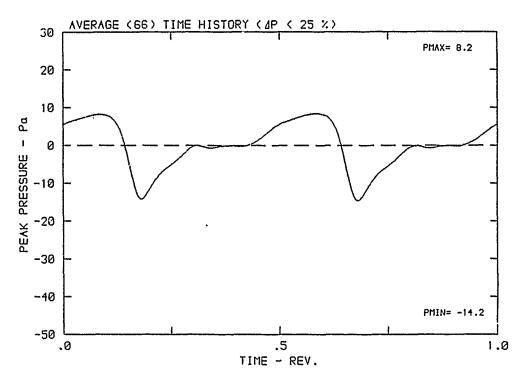


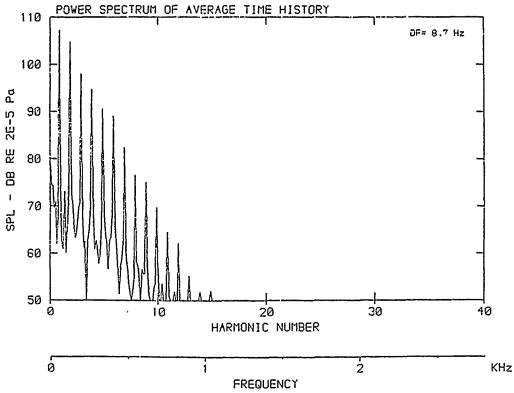
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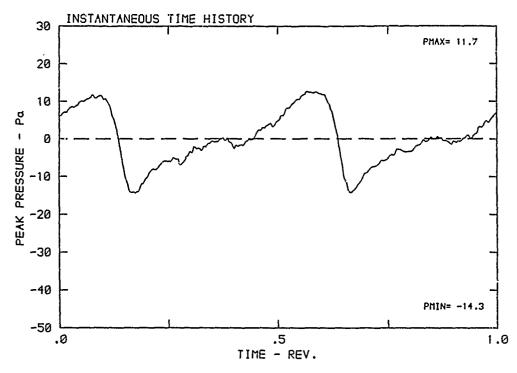
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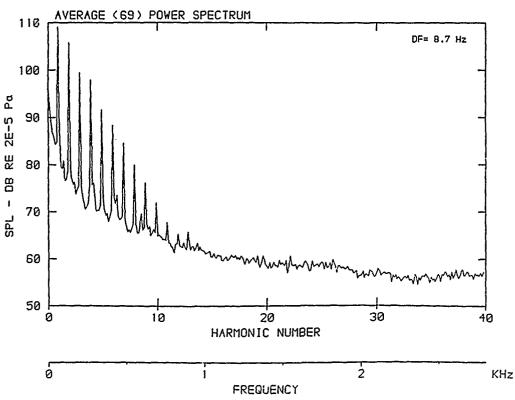




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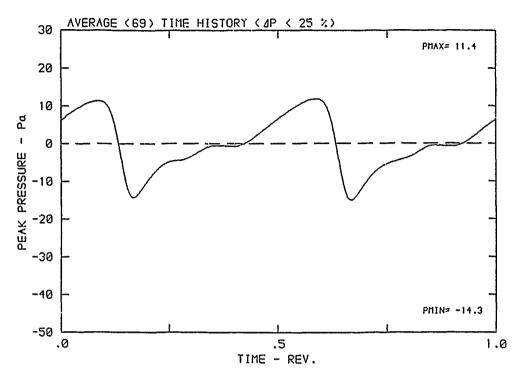
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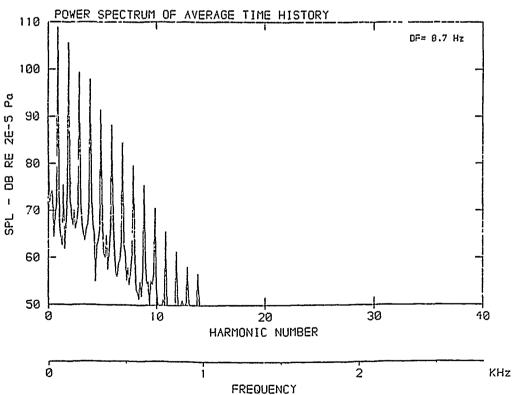




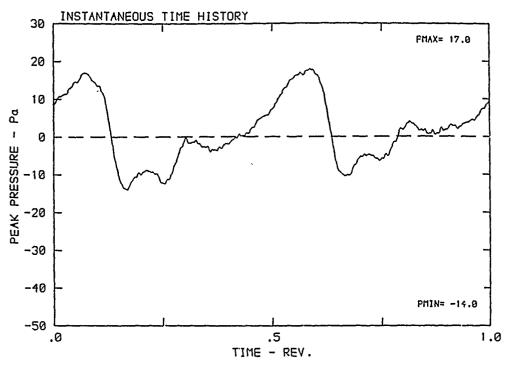
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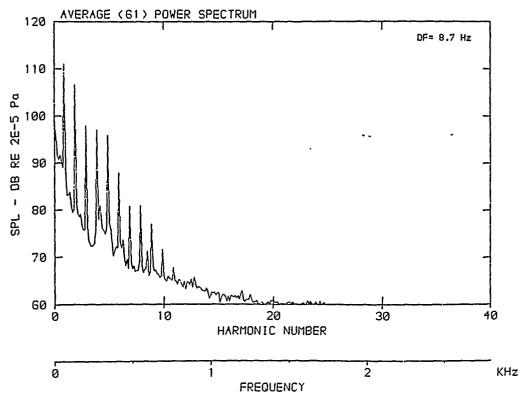
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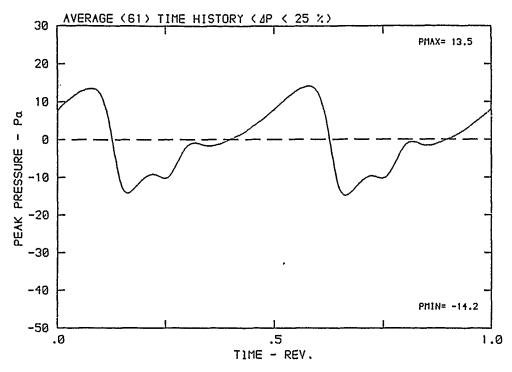


 $\beta\colon\,19.9^{\circ}\,$ MH: .6682 n: 2100 rpm $\,$ V/u: .180 $\,$ $\,$ $\phi\colon\,.0^{\circ}\,$ T: 287.2 K

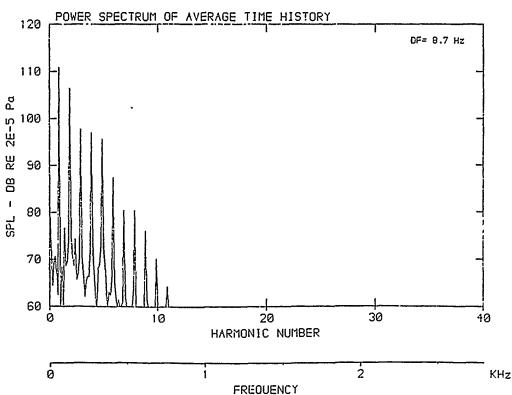




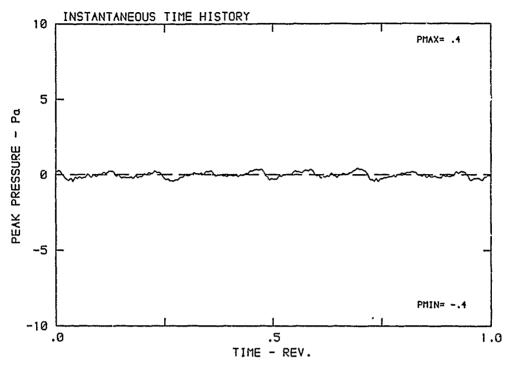
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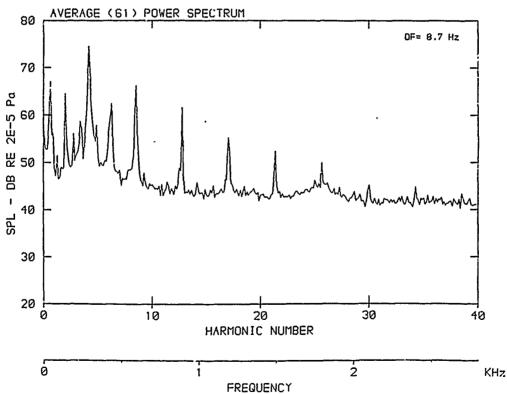


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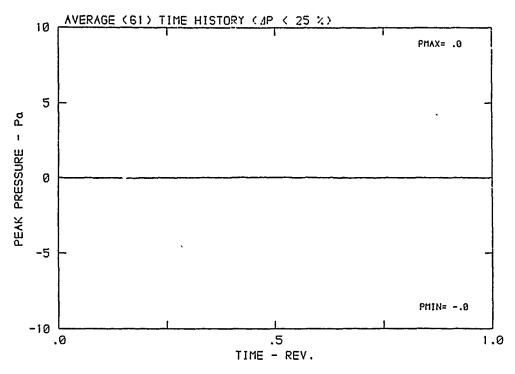


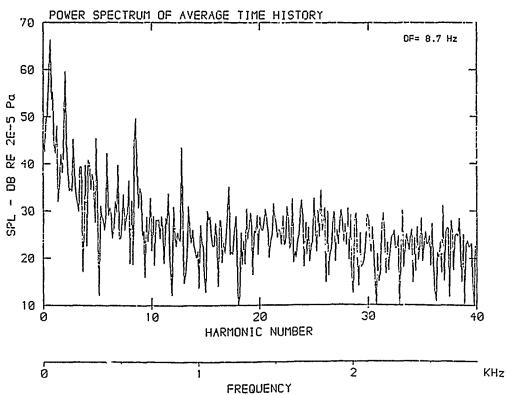
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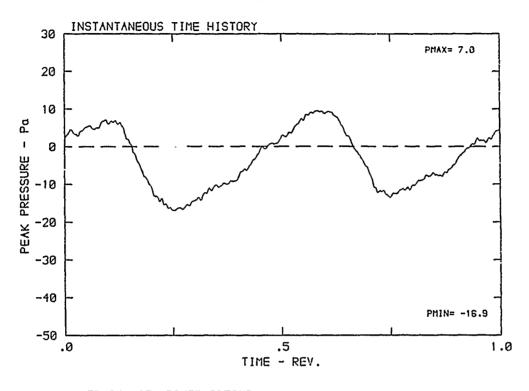


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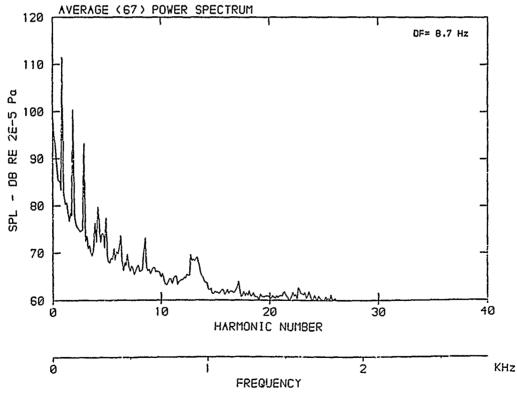




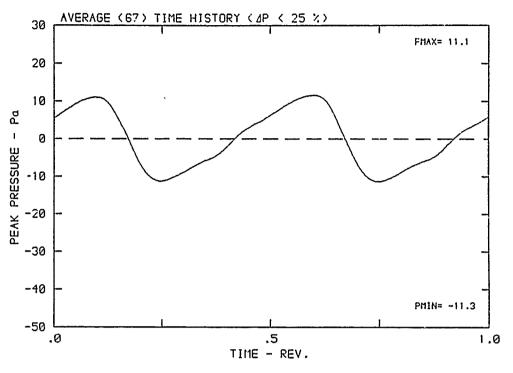
 β : 19.9° MH: .6682 n: 2100 rpm v/u: .180 ψ : .0° T: 287.2 K

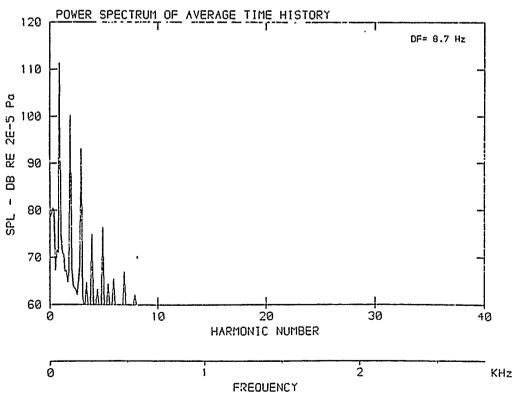


ESCENCE 655555 SECTION

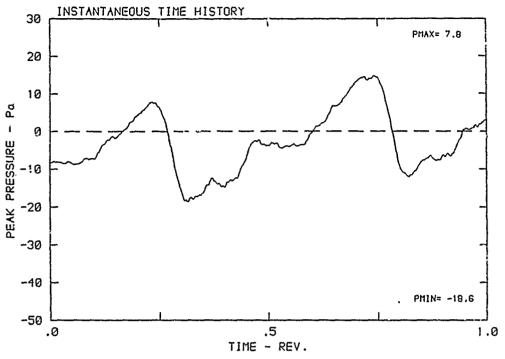


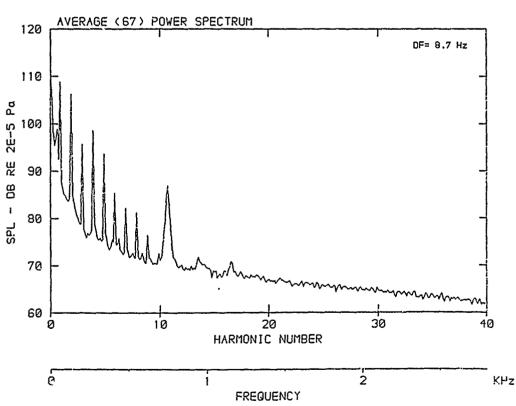
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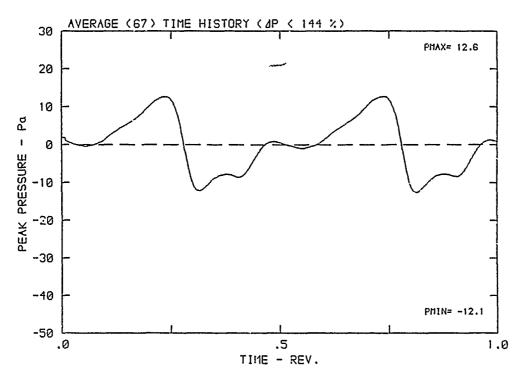


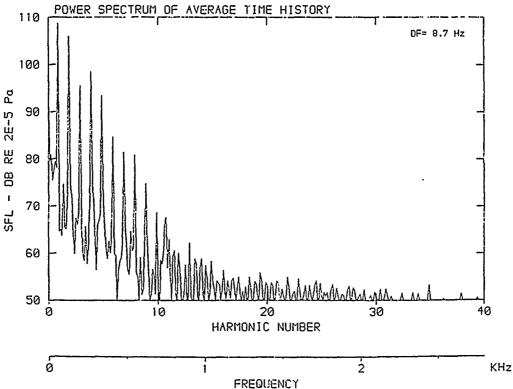
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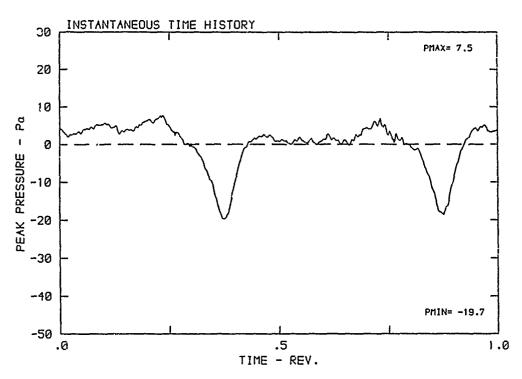


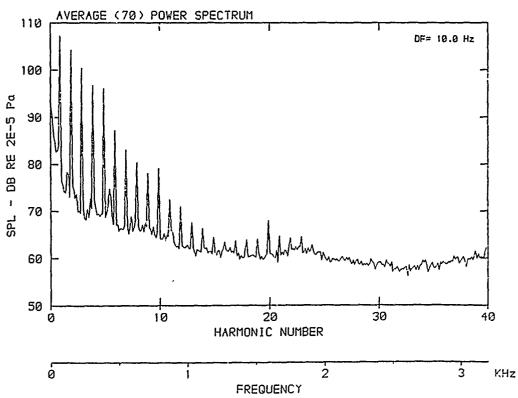
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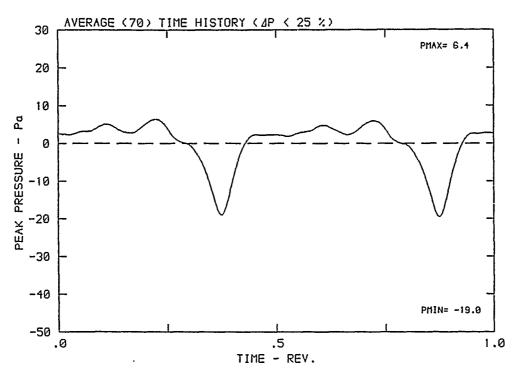


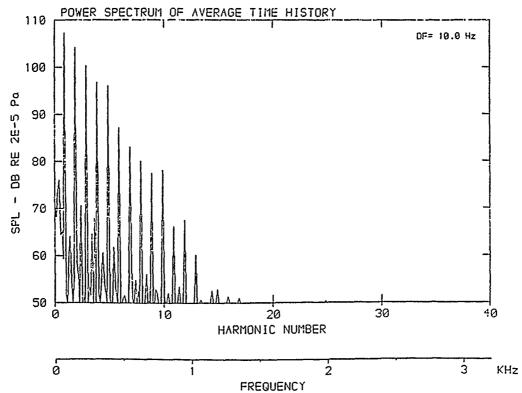
 $\beta\colon\,19.9^{\circ}\,$ MH: .7635 n: 2400 rpm v/u: .178 $\,\psi\colon\,.0^{\circ}\,$ T: 287.1 K





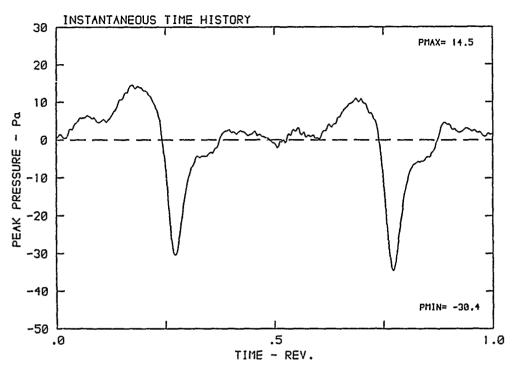
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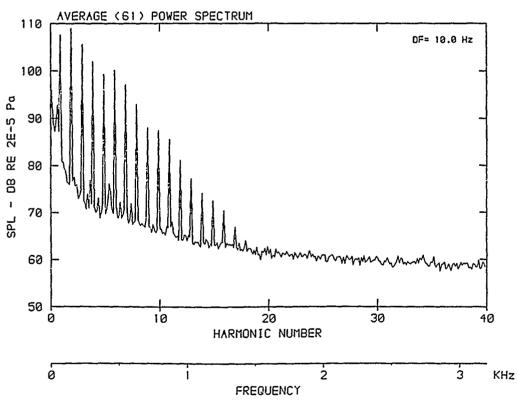




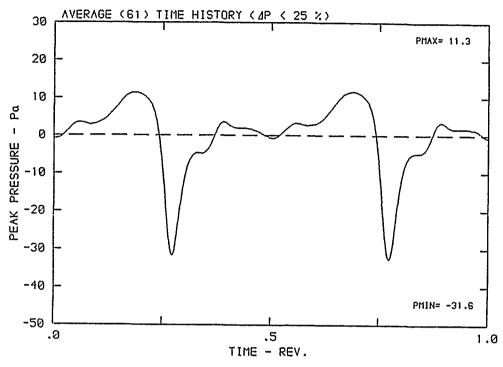
DATA POINT: BN-3 RUN; 56 MP: 2

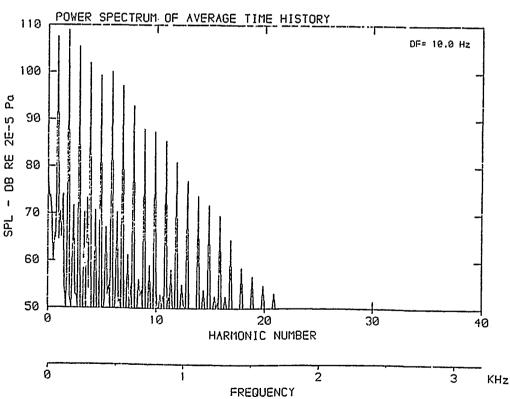
 β : 19.9° MH: .7635 n: 2400 rpm v/u: .178 ϕ : .0° T: 287.1 K



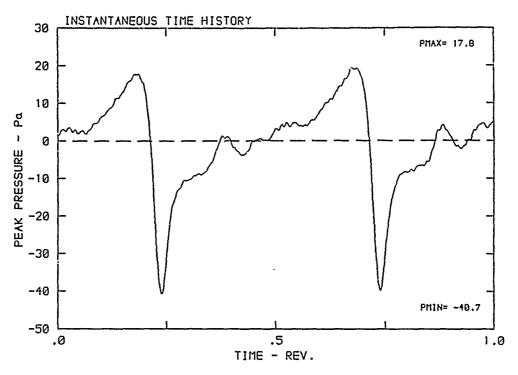


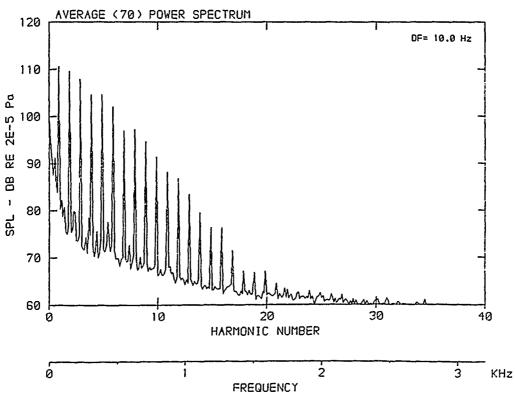
 β : 19.9° MH: .7635 n: 2400 rpm v/u: .178 ϕ : .0° T: 287.1 K



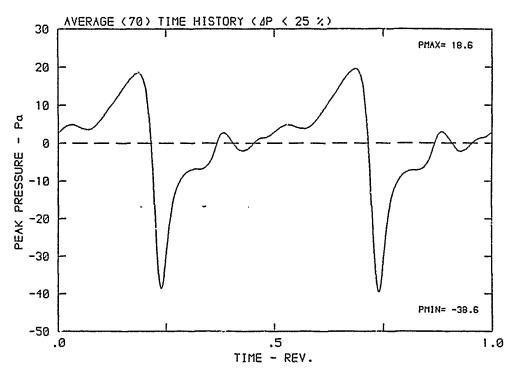


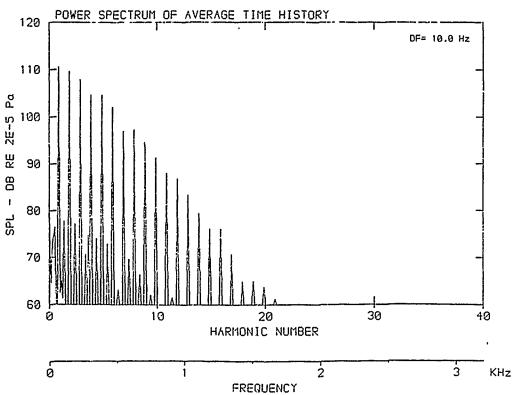
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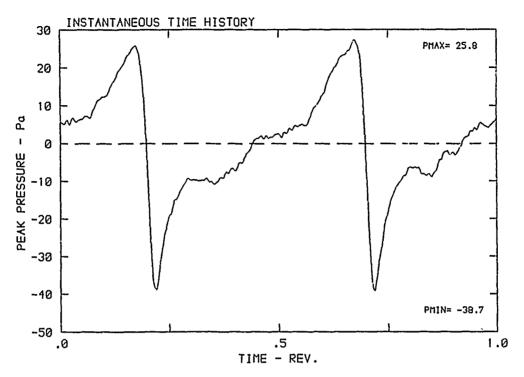
 β : 19.9° MH: .7635 n: 2400 rpm v/u: .178 ϕ : .0° T: 287.1 K

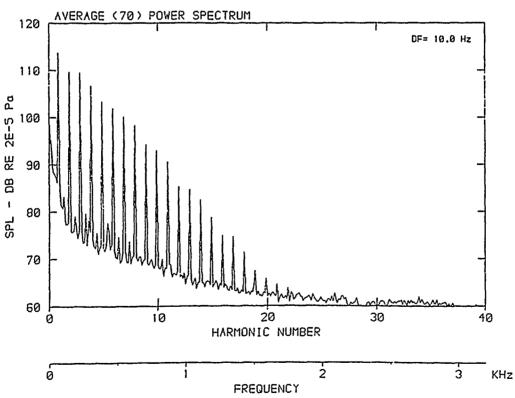




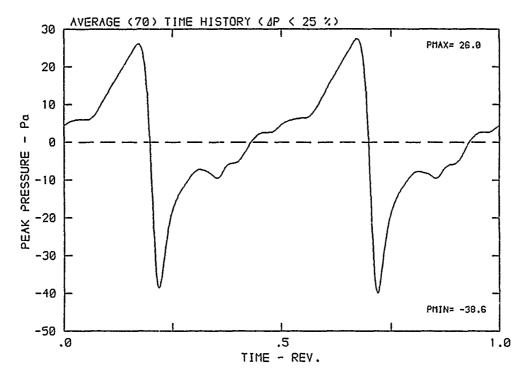
ZEZESKO KOURONSKIE WOSOOSEEL KZANKEKEN POWYKEKEN

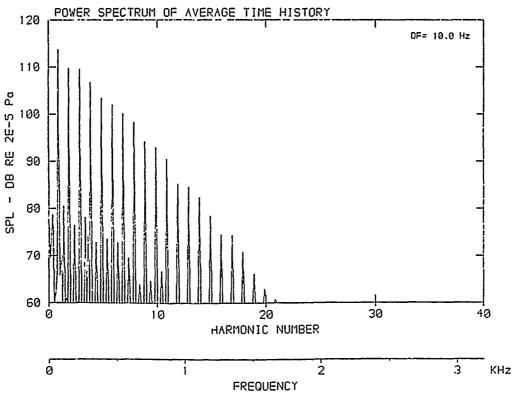
β: 19.9° MH: .7635 n: 2400 rpm ν/u: .178 φ: .0° T: 287.1 K



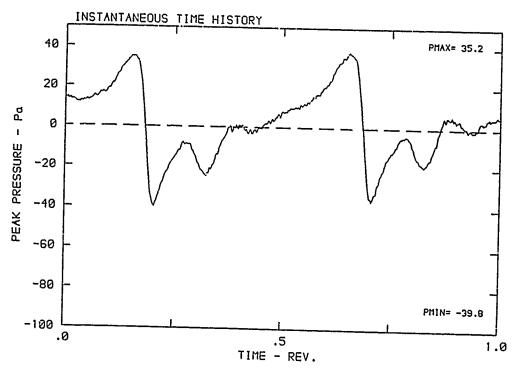


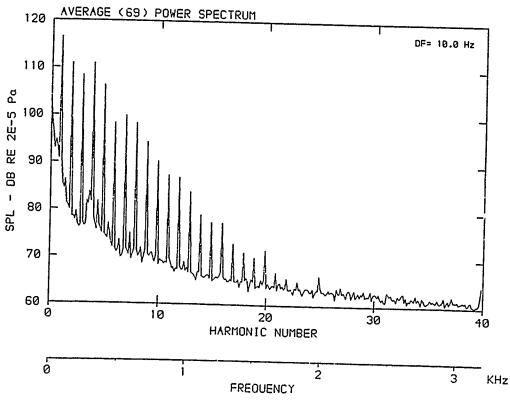
 β : 19.9° MH: .7635 n: 2400 rpm v/u: .178 ϕ : .0° T: 287.1 K



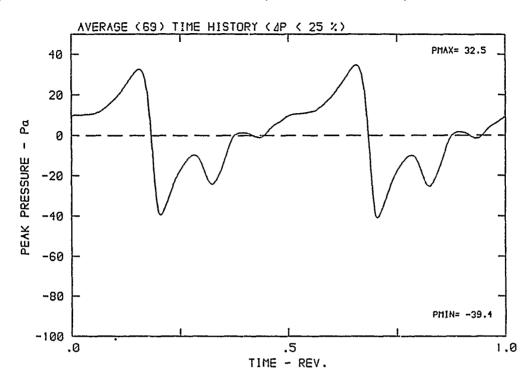


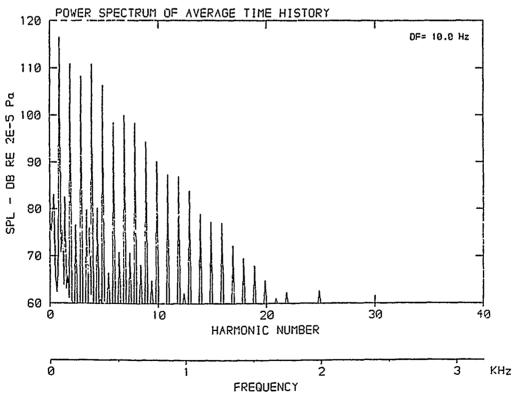
β: 19.9° MH: .7635 n: 2400 rpm v/u: .178 φ: .0° T: 287.1 K



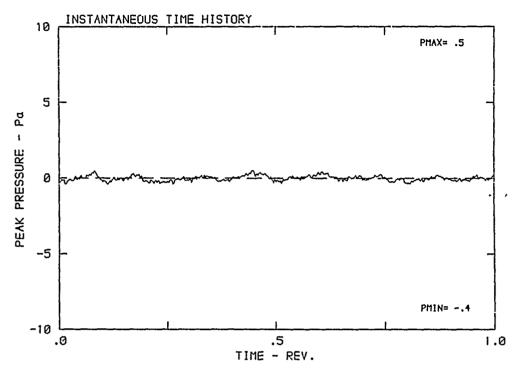


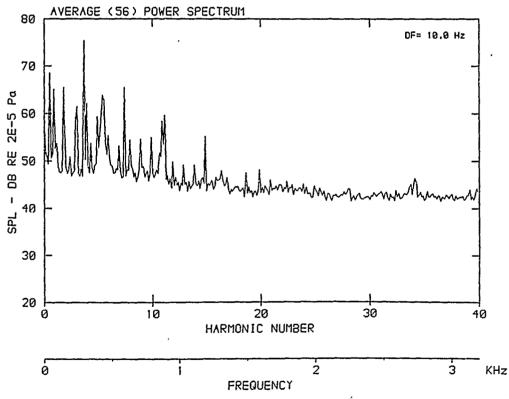
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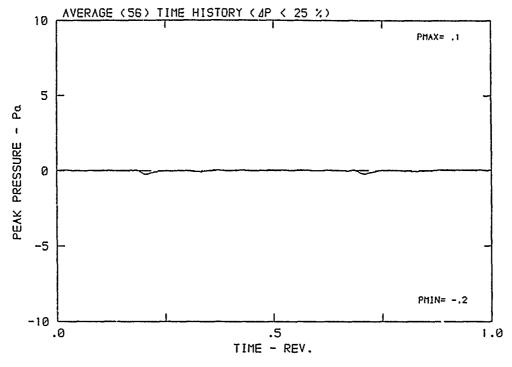


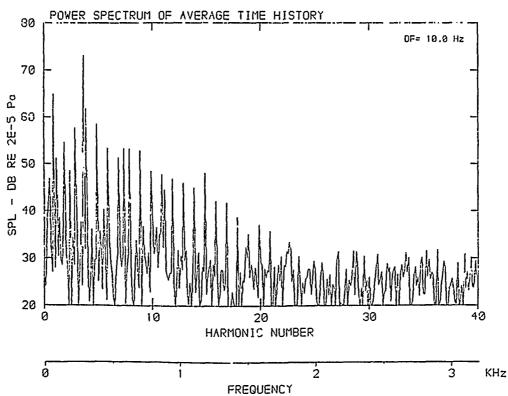
 β : 19.9° MH: .7635 n: 2400 rpm v/u: .178 ϕ : .0° T: 287.1 K





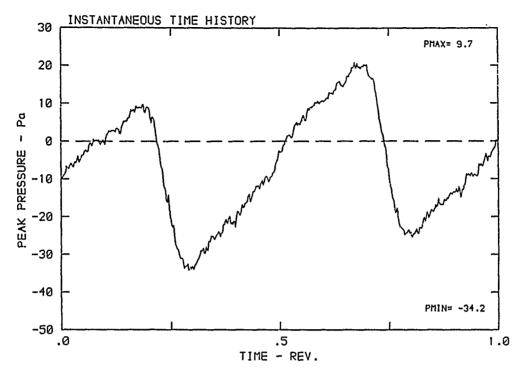
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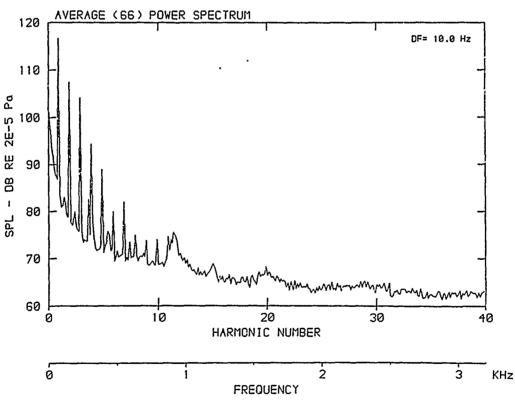




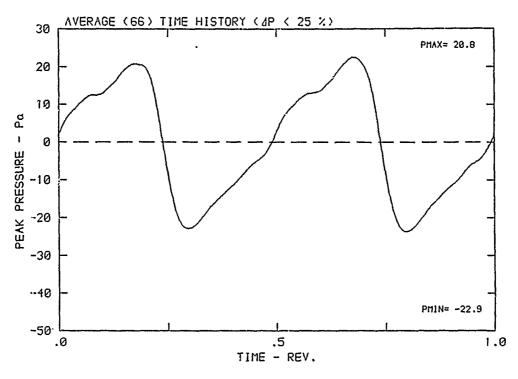
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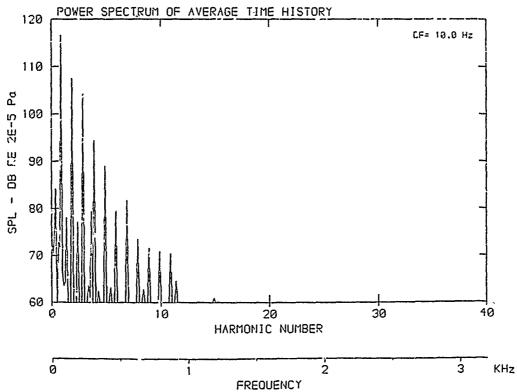
β: 19.9° MH: .7635 n: 2400 rpm v/u: .178 φ: .0° T: 287.1 K



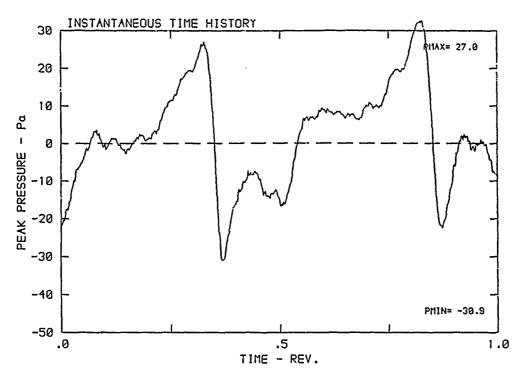


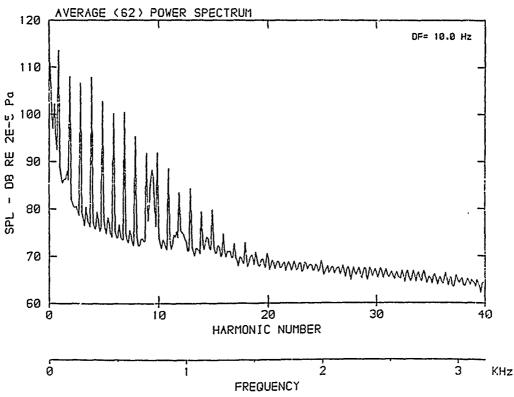
β: 19.9° MH: .7635 n: 2400 rpm v/u: .178 φ: .0° T: 287.1 K



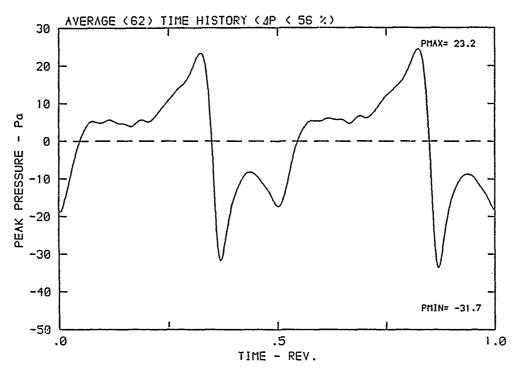


 β : 19.9° MH: .7635 n: 2400 rpm v/u: .178 ϕ : .0° T: 287.1 K

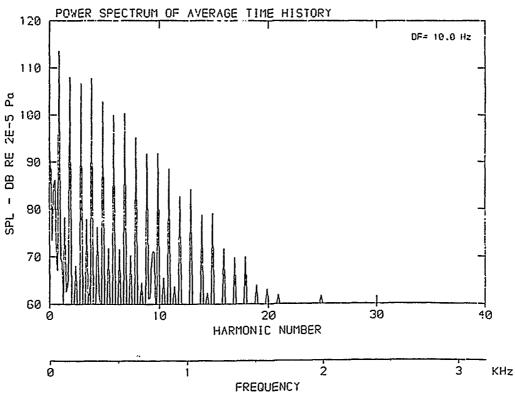




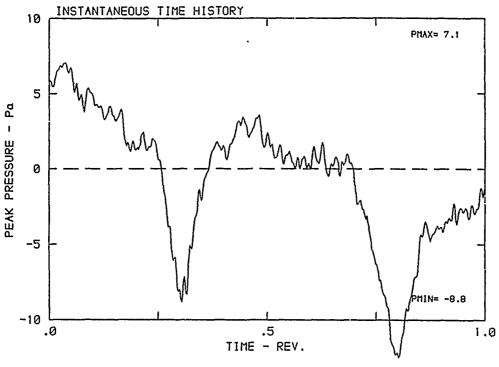
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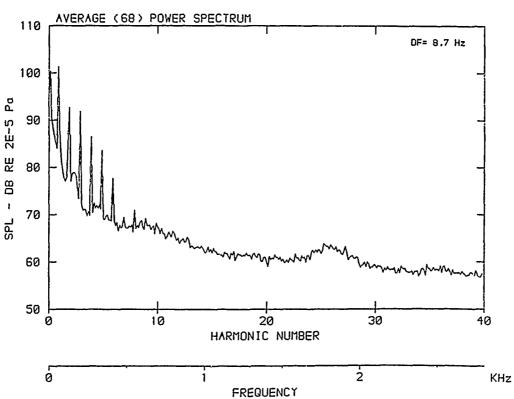


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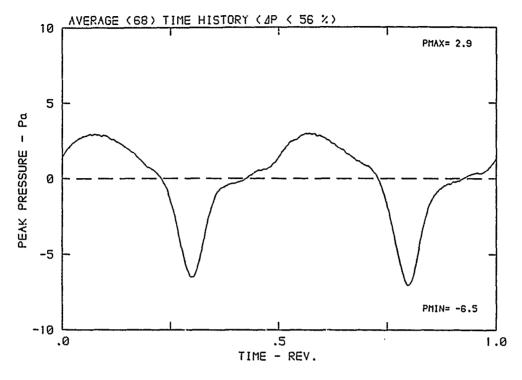
TO THE PERSON OF
 β : 19.9° MH: .6729 n: 2100 rpm v/u: .229 ϕ : .0° T: 288.7 K

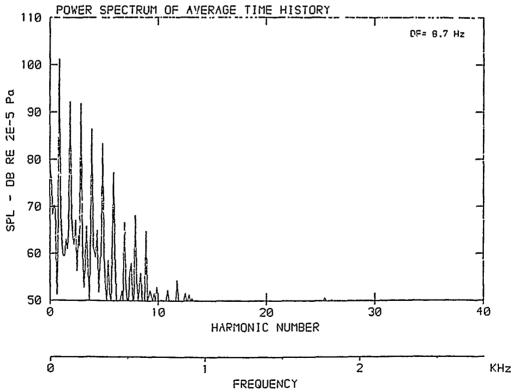




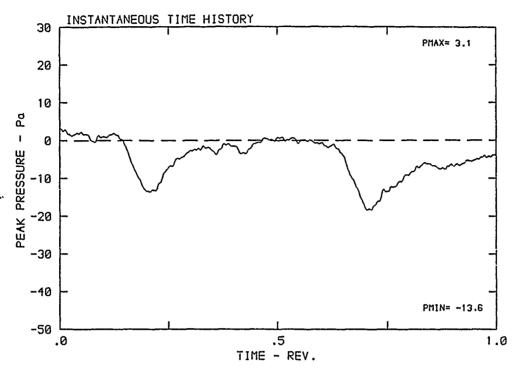
 β : 19.9° MH: .6729 n: 2100 rpm v/u: .229 ϕ : .0° T: 288.7 K

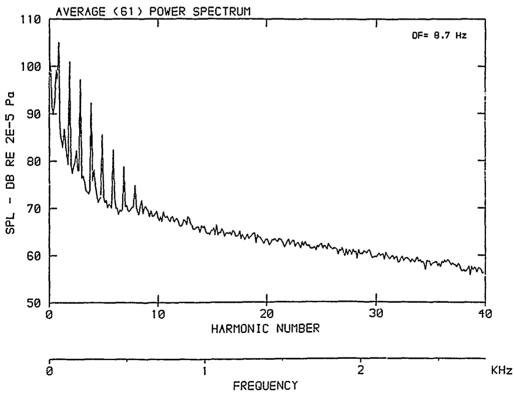
Progression Southern Control



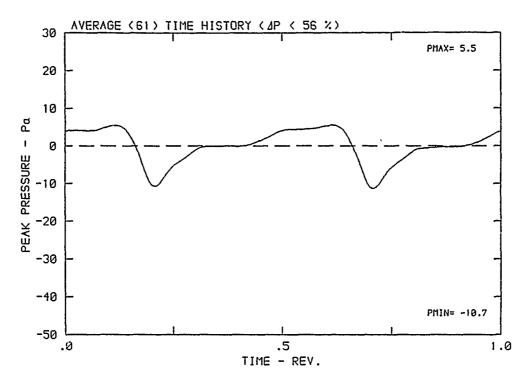


β: 19.9° MH: .6729 n: 2100 rpm ν/u: .229 ψ: .0° T: 288.7 K

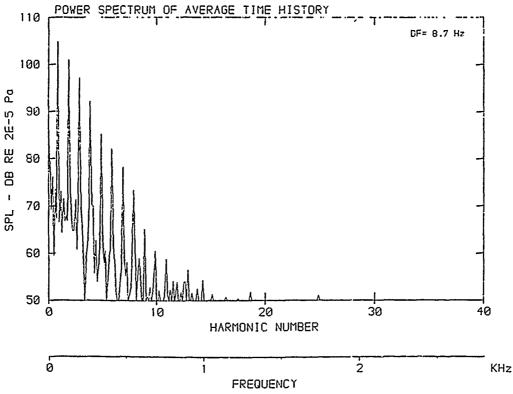




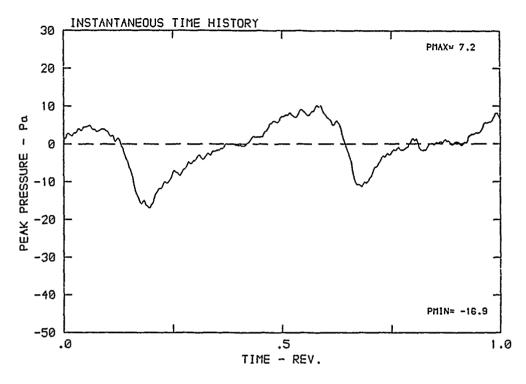
 β : 19.9° MH: .6729 n: 2100 rpm v/u: .229 ϕ : .0° T: 288.7 K

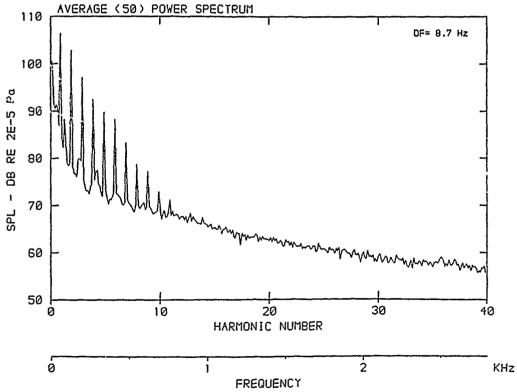


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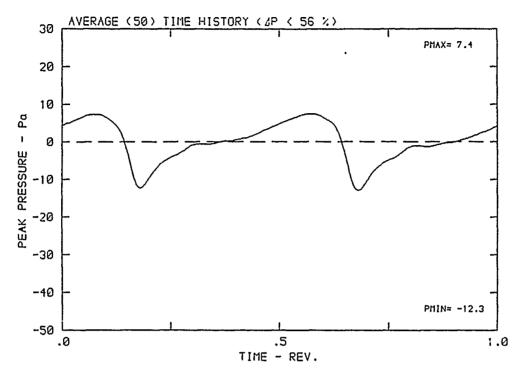
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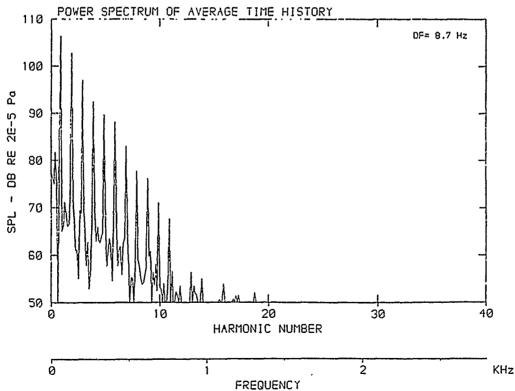




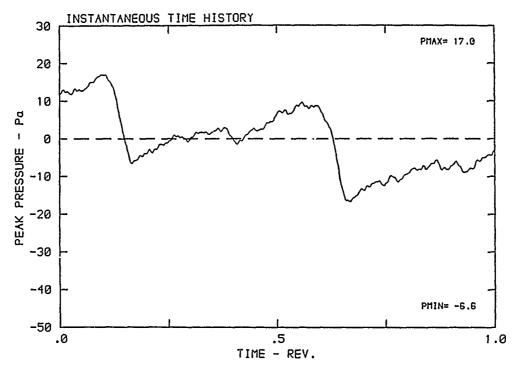
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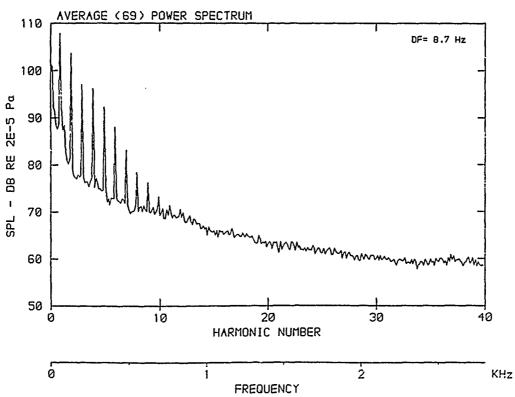
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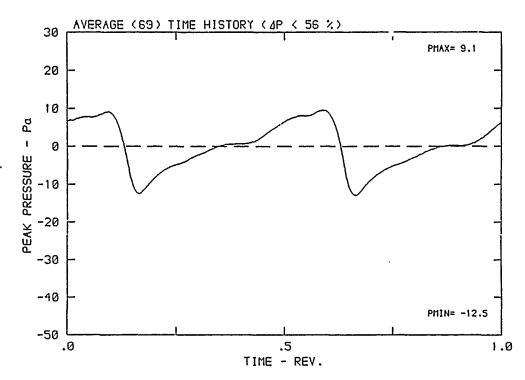


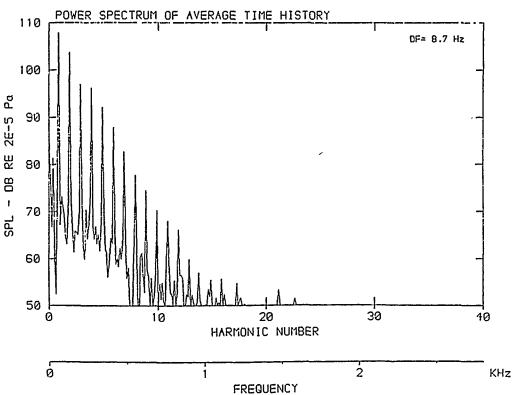
 β : 19.9° MH: .6729 n: 2100 rpm v/u: .229 ϕ : .0° T: 288.7 K



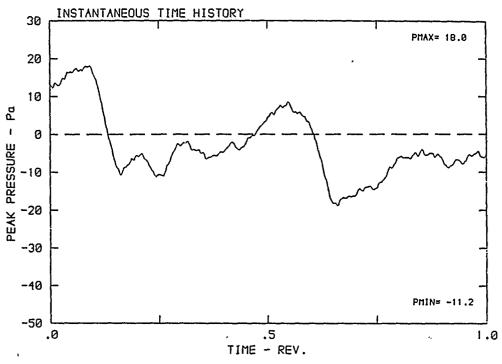


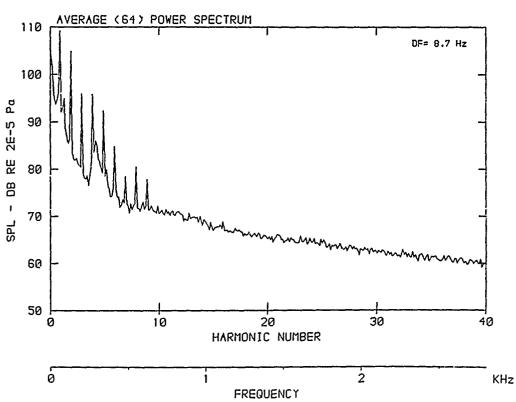
 $\beta\colon\,19.9^{\text{o}}\,$ MH: .6729 n: 2100 rpm v/u: .229 $\varphi\colon\,.0^{\text{o}}\,$ T: 288.7 K



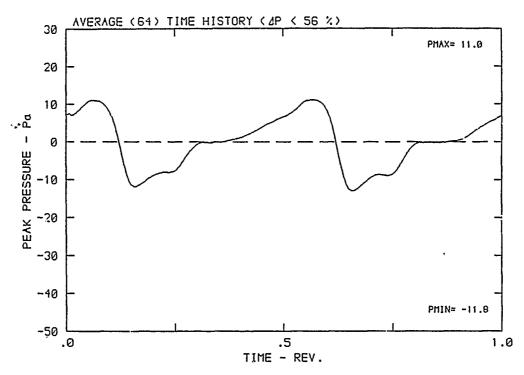


 $\beta\colon\,19.9^{\circ}$ 'MH: .6729 n: 2100 rpm v/u: .229 $\varphi\colon\,.0^{\circ}$ T: 288.7 K

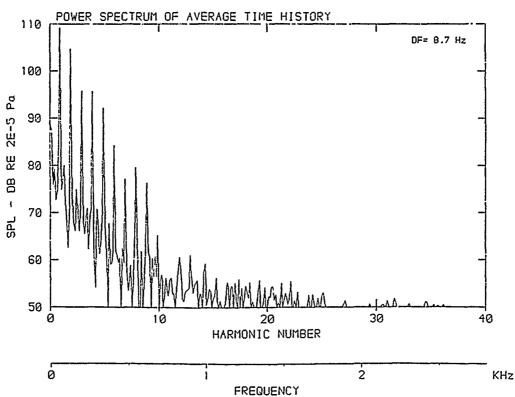




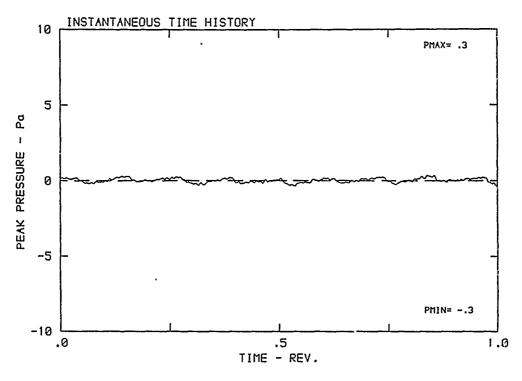
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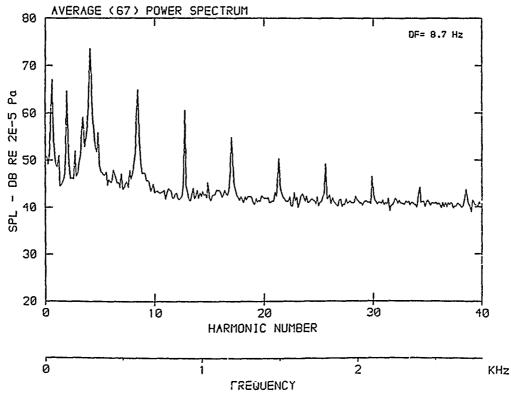
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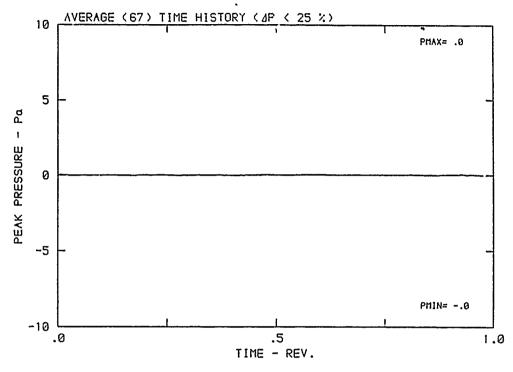
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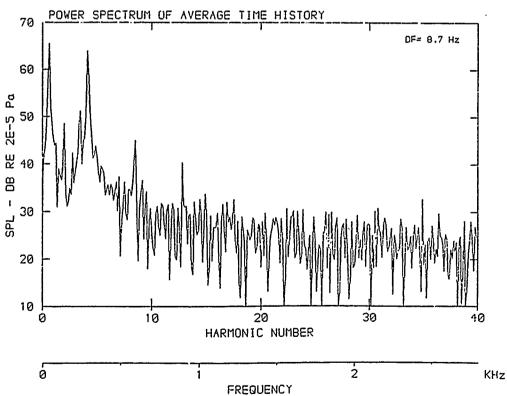


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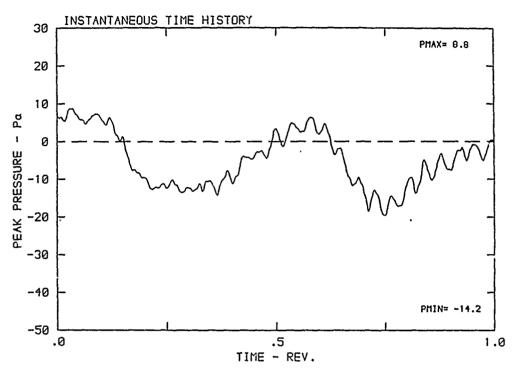


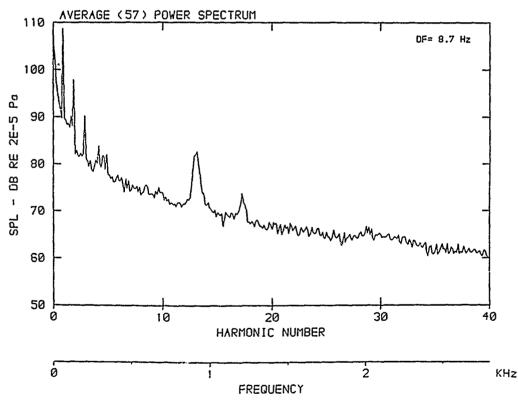
 β : 19.9° MH: .6729 n: 2100 rpm v/u: .229 ¢: .0° T: 288.7 K



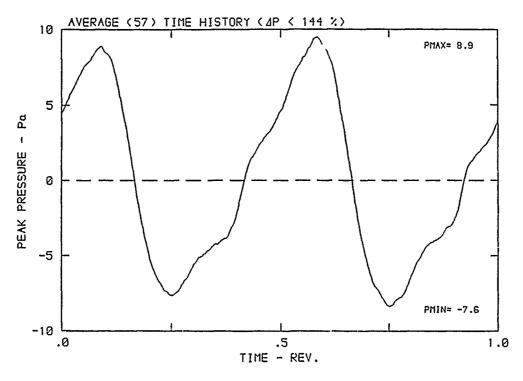


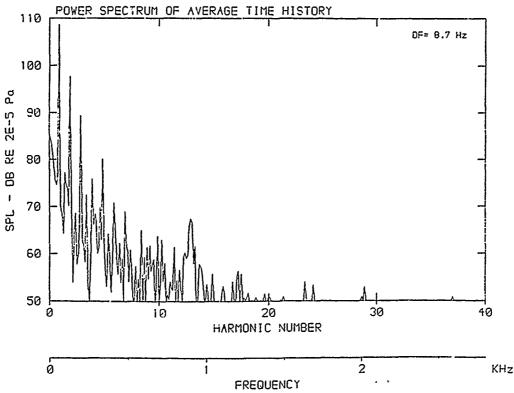
 $\beta\colon\,19.9^{o}\,$ MH: .6729 n: 2100 rpm v/u: .229 $\varphi\colon\,.0^{o}\,$ T: 288.7 K



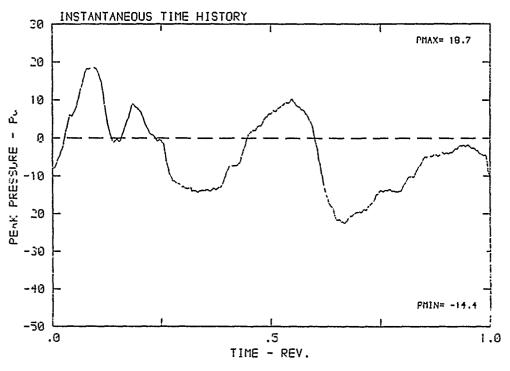


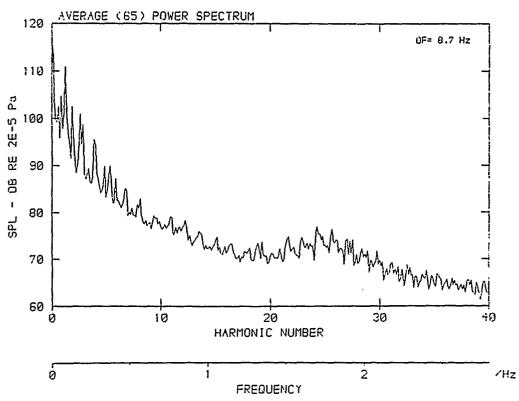
β: 19.9° MH: .6729 n: 2100 rpm v/u: .229 φ: .0° T: 288.7 K



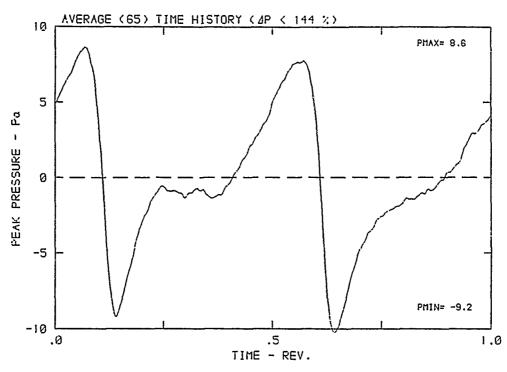


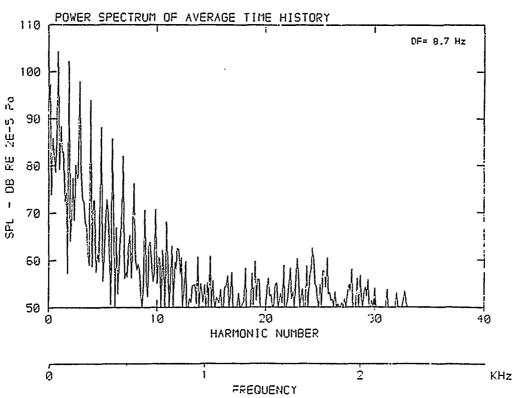
 $\beta\colon\,19.9^{\circ}\,$ MH: .6729 n: 2100 rpm v/u: .229 $\varphi\colon\,.0^{\circ}\,$ T: 288.7 K



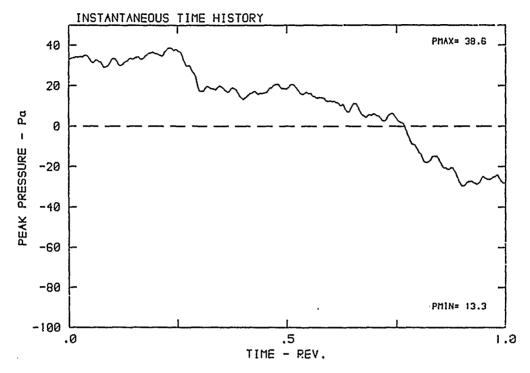


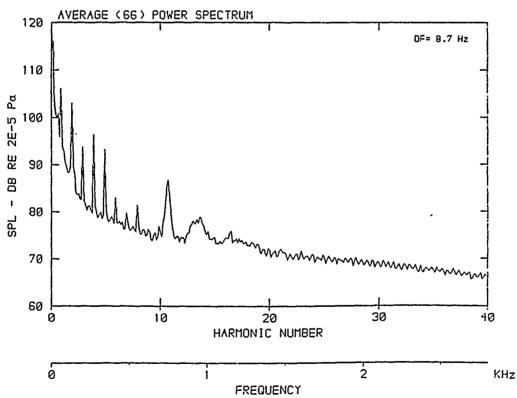
 β : 19.9° MH: .6729 n: 2100 rpm v/u: .229 ϕ : .0° T: 288.7 K



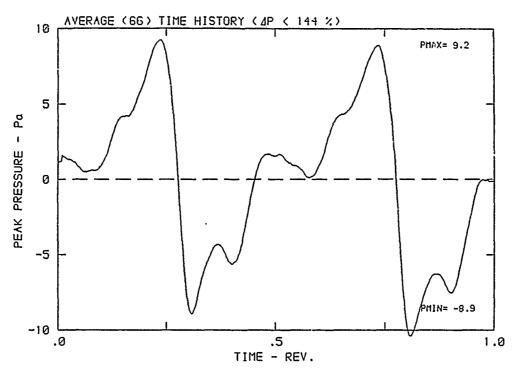


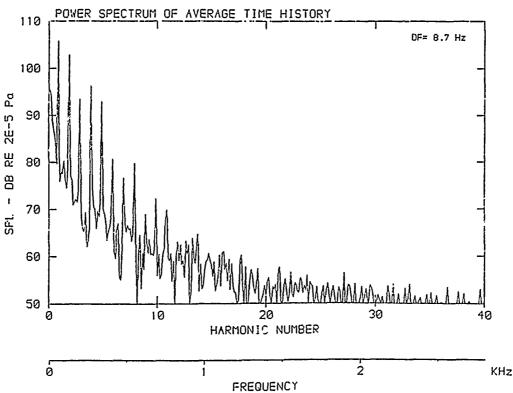
β: 19.9° MH: .6729 n: 2100 rpm ν/u: .229 φ: .0° T: 288.7 K





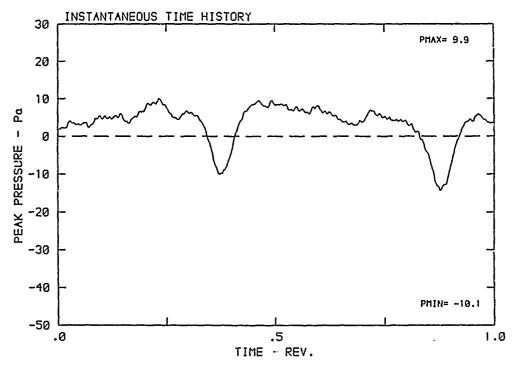
 β : 19.9° MH: .6729 n: 2100 rpm $\mbox{ v/u}$: .229 $\mbox{ }$: .0° T: 288.7 K

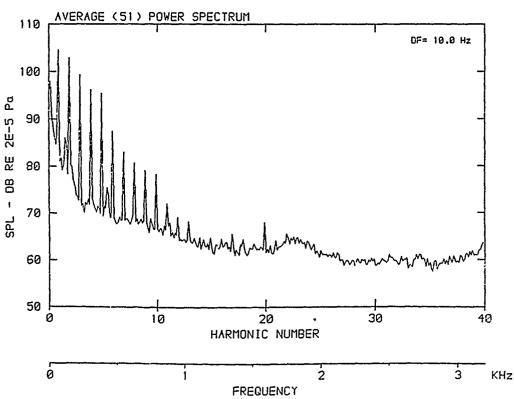




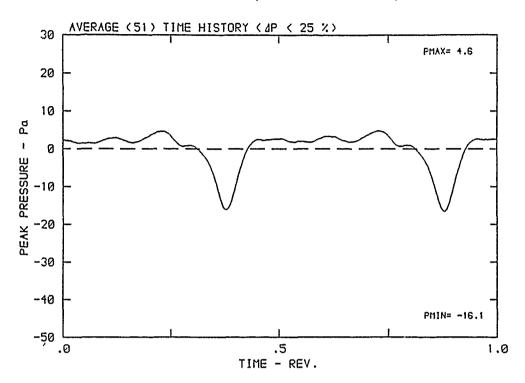
TAZILIFOTS CONTRACTOR (BONTANCO AND SARA) WANTER AND SARA

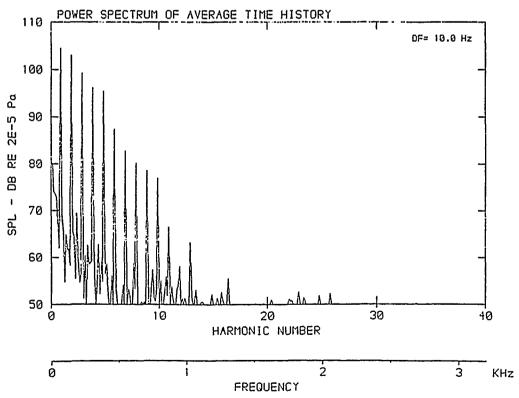
 β : 19.9° MH: .7639 n: 2400 rpm $\mbox{ v/u}$: .202 $\mbox{ }\phi$: .0° T: 289.3 K



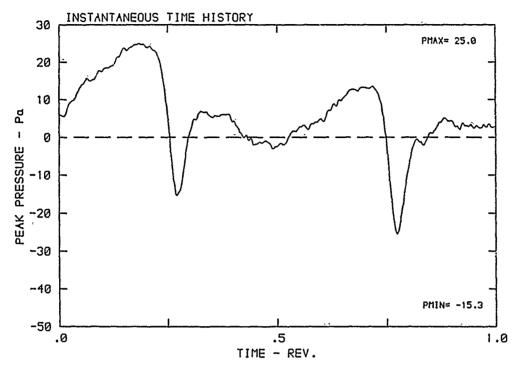


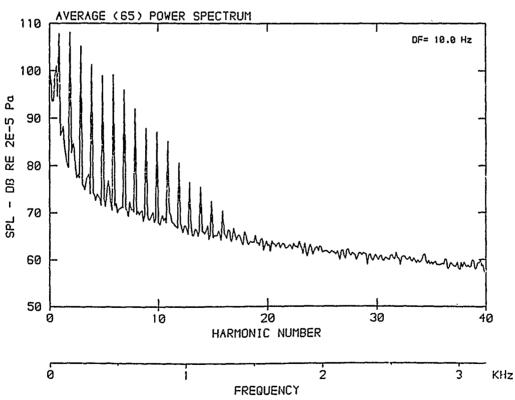
 β : 19.9° MH: .7639 n: 2400 rpm v/u: .202 ϕ : .0° T: 289.3 K



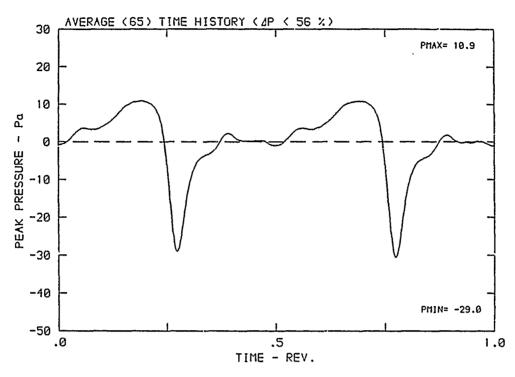


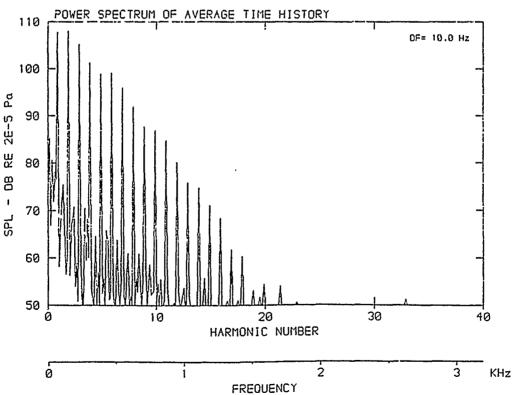
β: 19.9° MH: .7639 n: 2400 rpm v/u: .202 φ: .0° T: 289.3 K



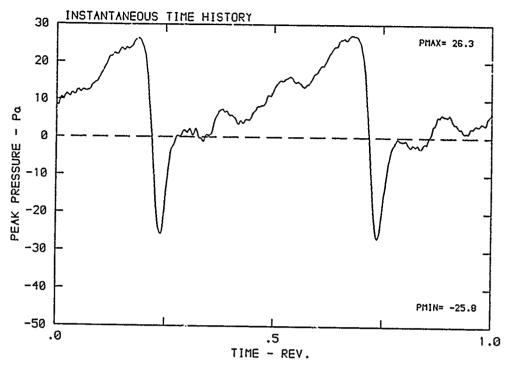
PARTICIPATION OF THE PROPERTY


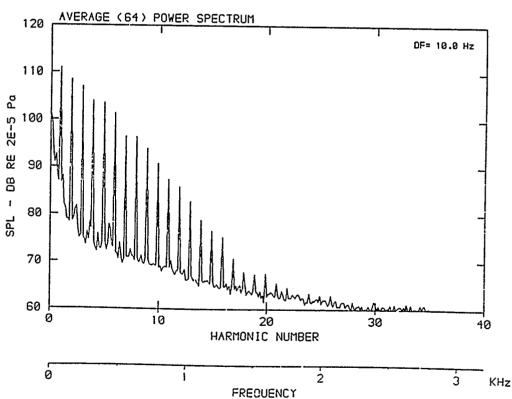
 β : 19.9° MH: .7639 n: 2400 rpm v/u: .202 ϕ : .0° T: 289.3 K



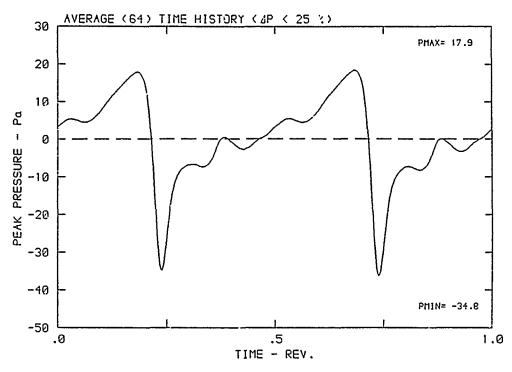


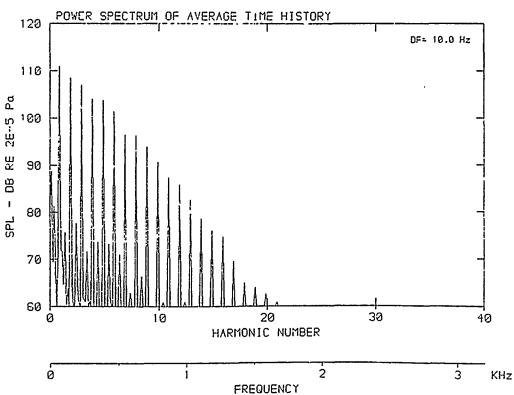
BANKEY TO AND ARCA DESCRIPTION OF THE PROPERTY
β: 19.9° MH: .7639 n: 2400 rpm v/u: .202 φ: .0° T: 289.3 K



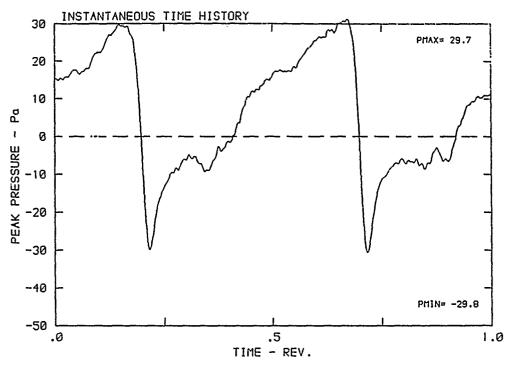


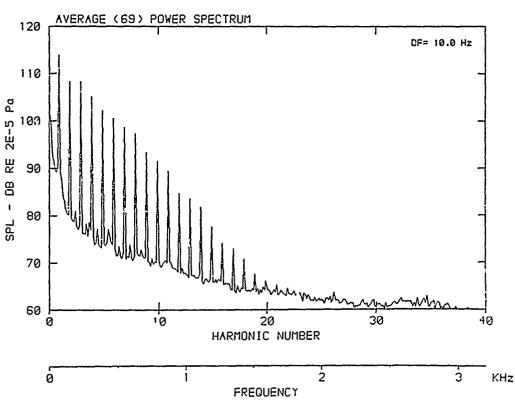
 β : 19.9° MH: .7639 n: 2400 rpm v/u: .202 ϕ : .0° T: 289.3 K



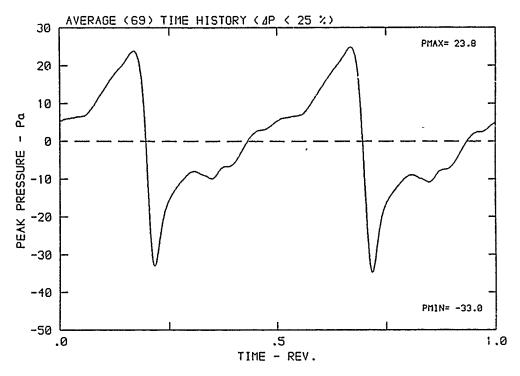


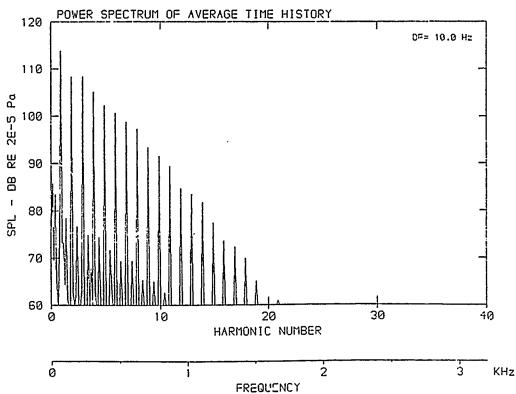
 β : 19.9° MH: .7639 n: 2400 rpm v/u: .202 ϕ : .0° T: 289.3 K





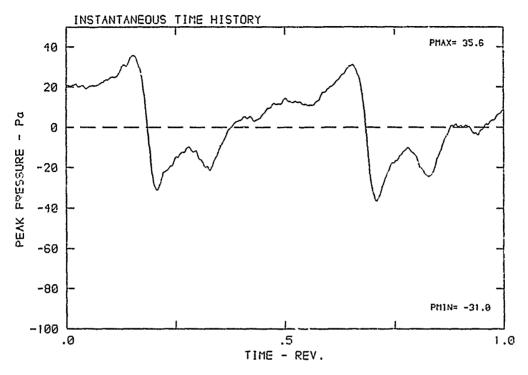
 β : 19.9° MH: .7639 n: 2400 rpm v/u: .202 ϕ : .0° T: 289.3 K

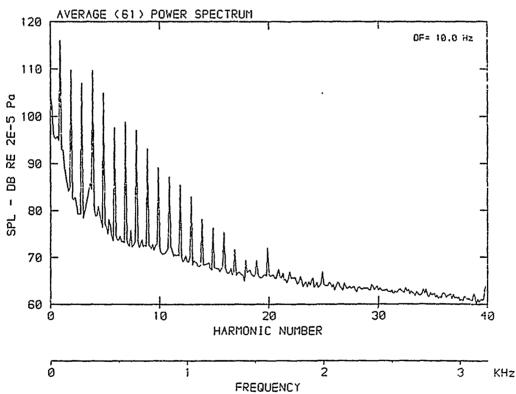




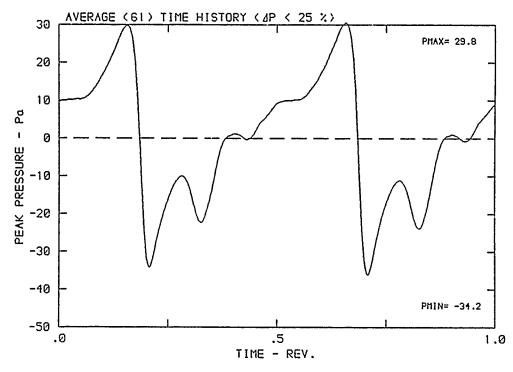
方法が対象は一方法が大力は国内的な

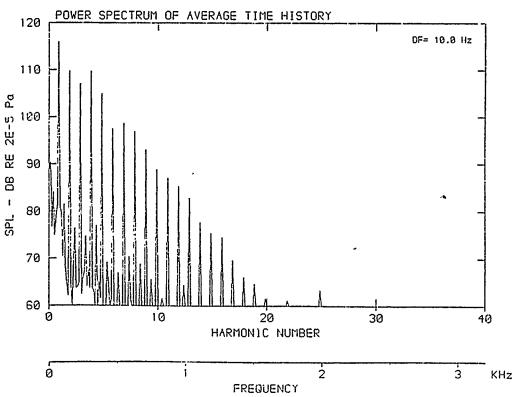
 β : 19.9° MH: .7639 n: 2400 rpm v/u: .202 ψ : .0° T: 199.3 K



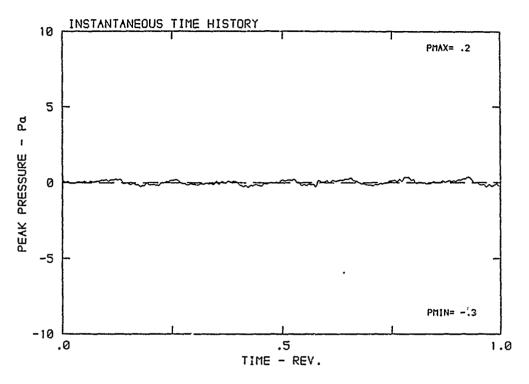


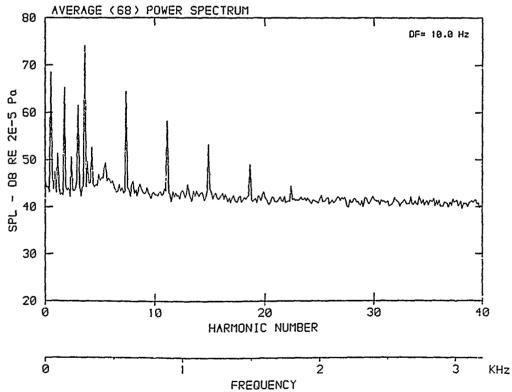
 β : 19.9° MH: .7639 n: 2400 rpm v/u: .202 ϕ : .0° T: 289.3 K



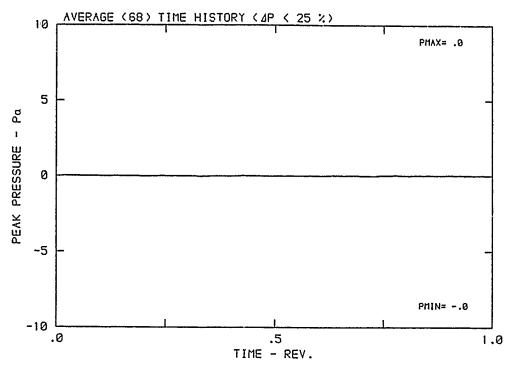


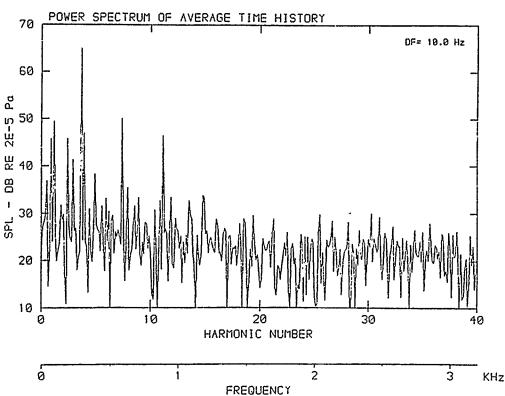
 β : 19.9° MH: .7639 n: 2400 rpm v/u: .202 ϕ : .0° T: 289.3 K



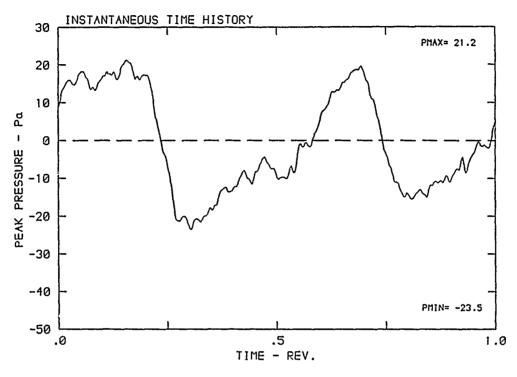


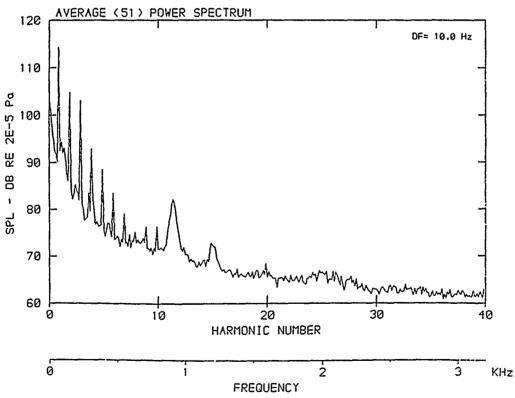
 $\beta\colon\,19.9^{o}\,$ MH: .7639 n: 2400 rpm v/u: .202 $\varphi\colon\,.0^{o}\,$ T: 289.3 K



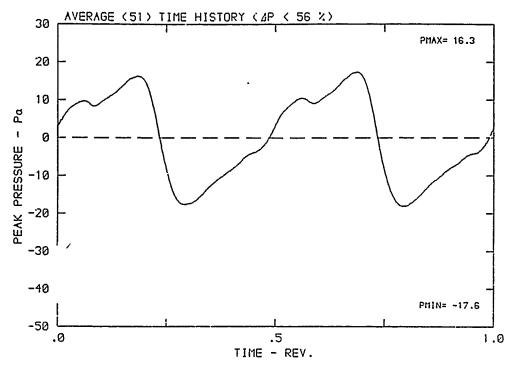


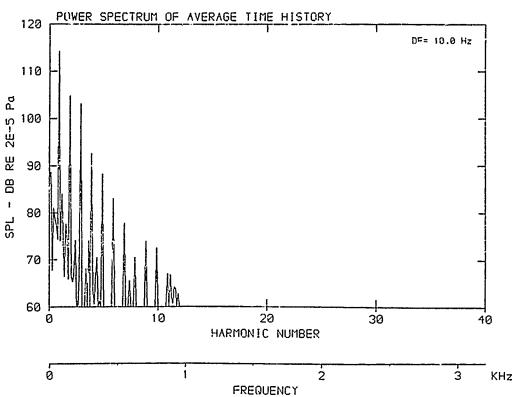
 β : 19.9° MH: .7639 n: 2400 rpm v/u: .202 ϕ : .0° T: 289.3 K



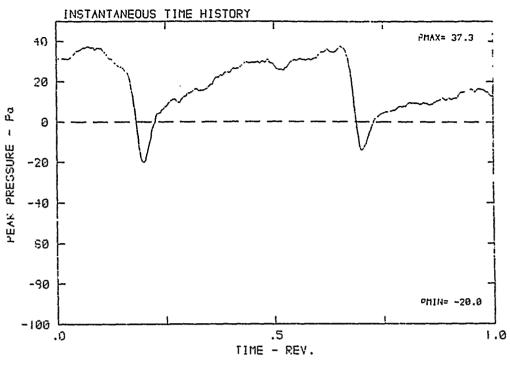


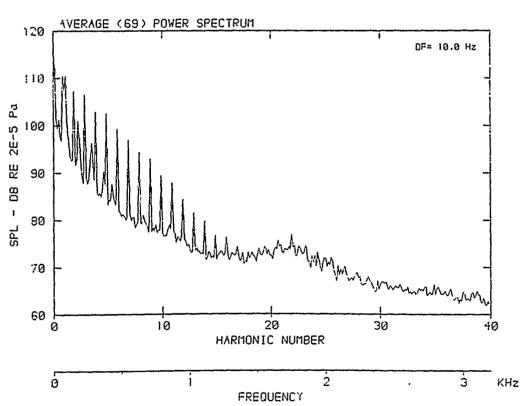
 β : 19.9° MH: .7639 n: 2400 rpm v/u: .202 ϕ : .0° T: 289.3 K



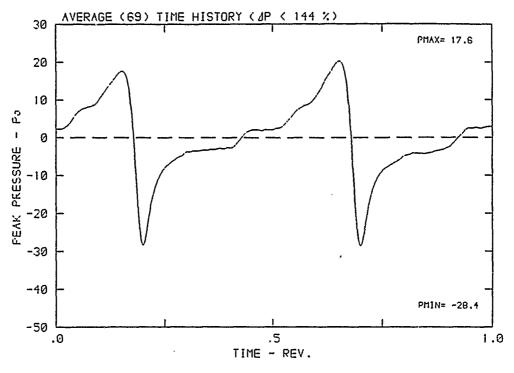


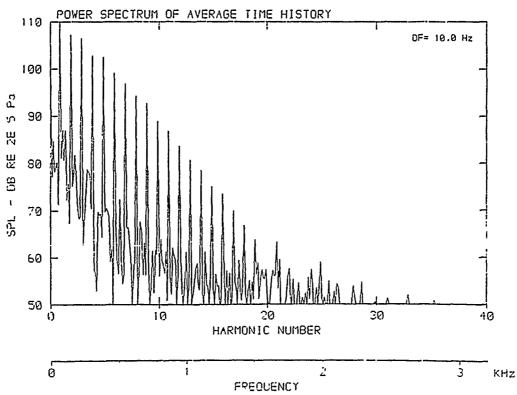
 $\beta\colon\,19.9^o\,$ MH: .7639 n: 2400 rpm v/u: .202 &: .00 T: 239.3 K



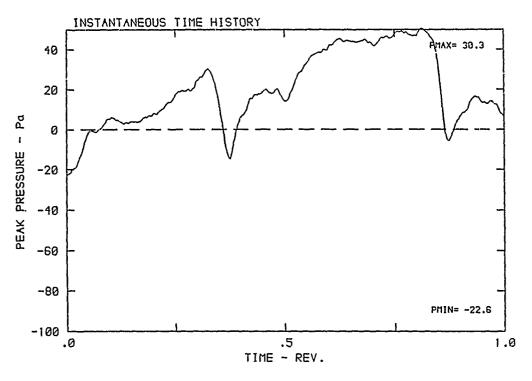


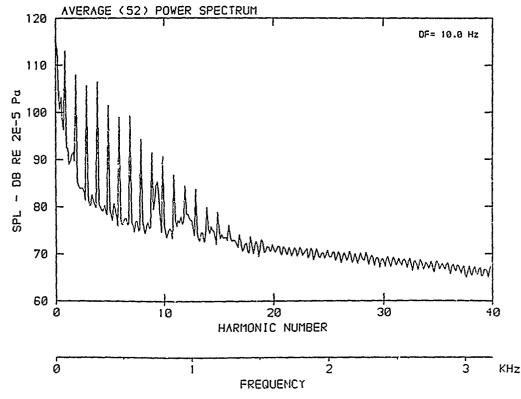
 $\beta\colon\,19.9^{o}\,$ MH: .7639 n: 2400 rpm v/u: .202 $\varphi\colon\,.0^{o}\,$ T: 289.3 K



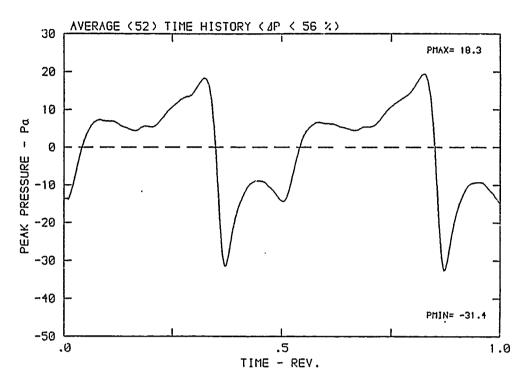


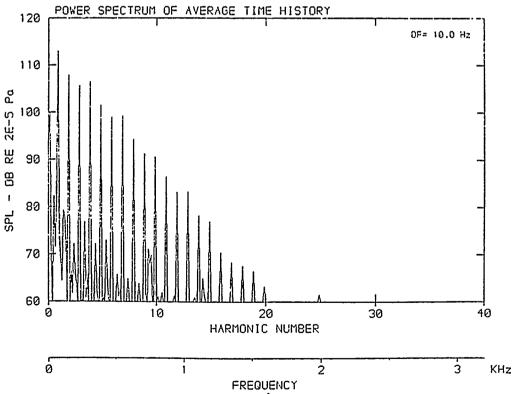
 β : 19.9° MH: .7639 n: 2400 rpm $\mbox{v/u}$: .202 $\mbox{$\phi$}$: .0° T: 289.3 K



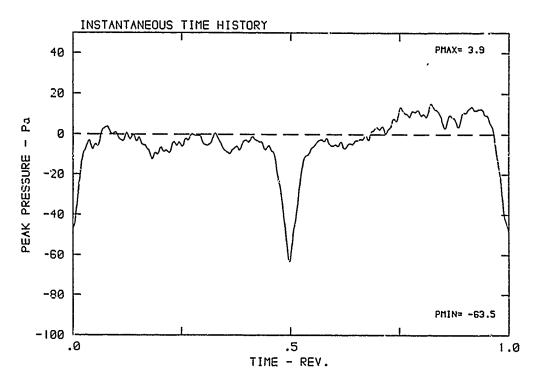


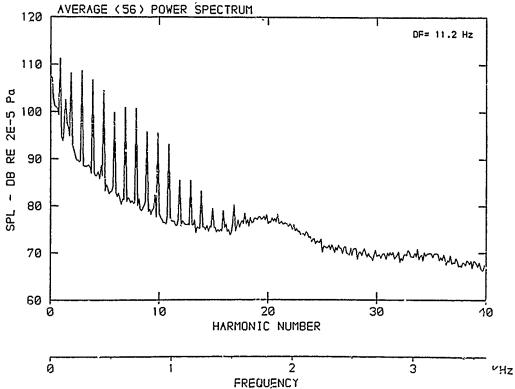
β: 19.9° MH: .7639 n: 2400 rpm ν/u: .202 φ: .0° T: 289.3 K



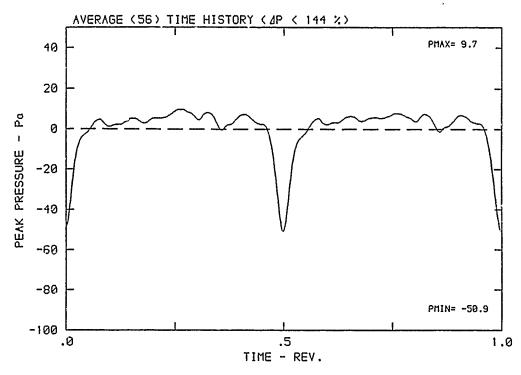


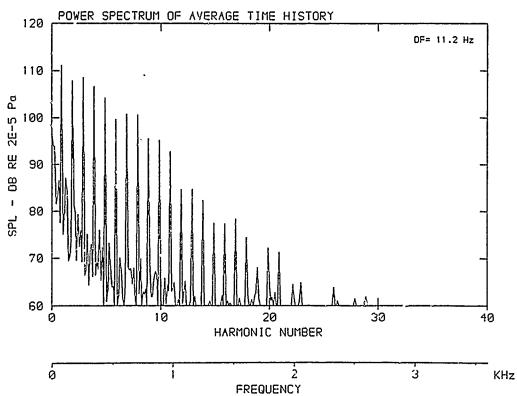
 β : 19.9° MH: .8758 n: 2700 rpm v/u: .269 ϕ : .0° T: 287.0 K





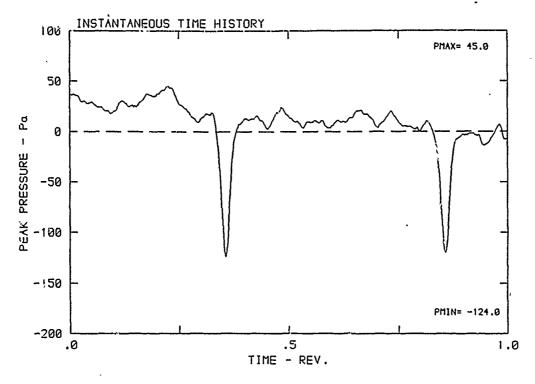
 β : 19.9° MH: .8758 n: 2700 rpm v/u: .269 ϕ : .0° T: 287.0 K



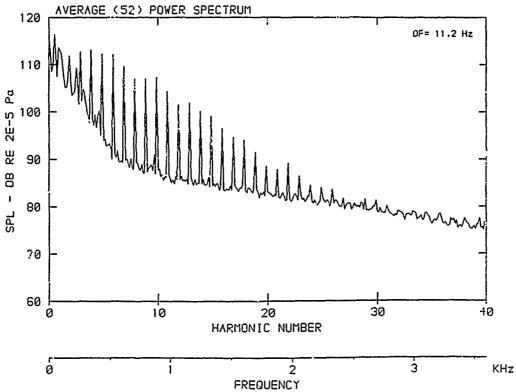


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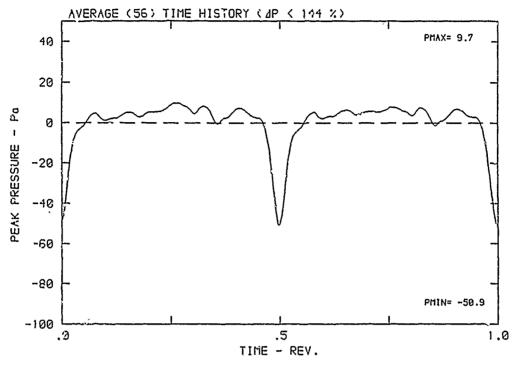
 $\beta\colon\,19.9^{o}$ MH: .8758 n: 2700 rpm v/u: .269 $\varphi\colon\,.0^{o}$ T: 287.0 K

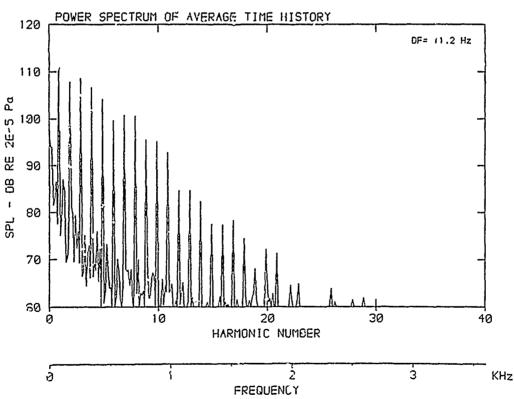


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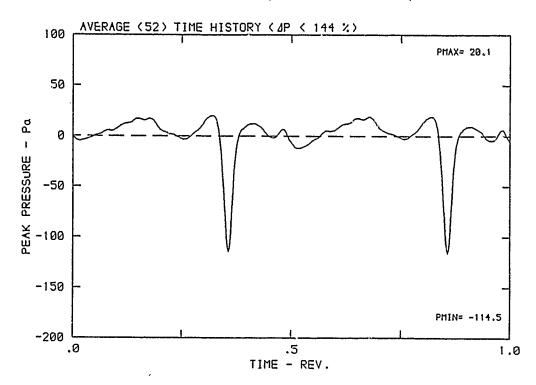


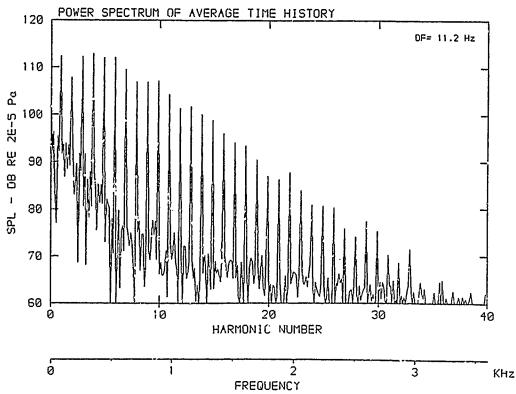
 $\beta\colon\,19.9^{o}\,$ MH: .8758 n: 2700 rpm v/u: .269 $\varphi\colon\,.0^{o}\,$ T: 287.6 K





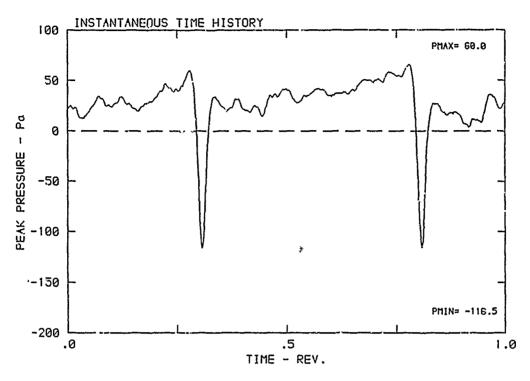
 β : 19.9° MH: .8758 n: 2700 rpm v/u: .269 ϕ : .0° T: 287.0 K

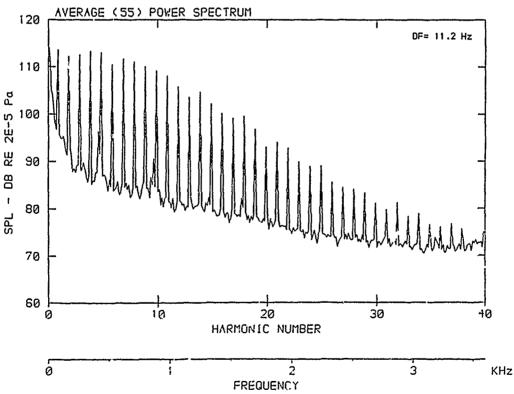




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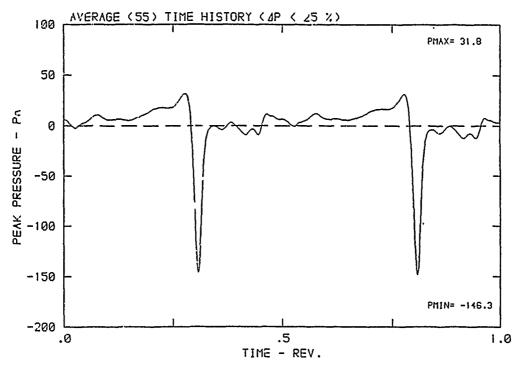
 β : 19.9° MH: .8758 n: 2700 rpm v/u: .269 ϕ : .0° T: 287.0 K

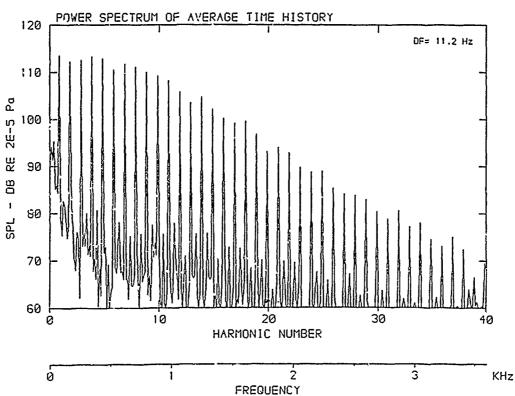




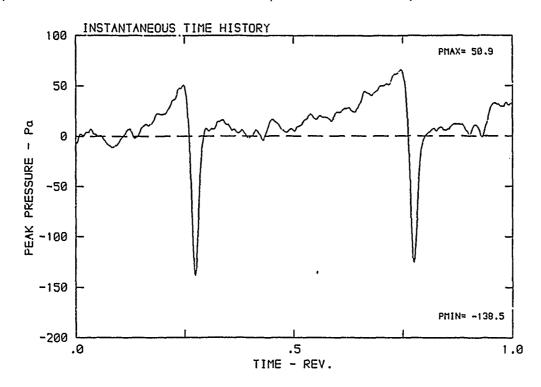
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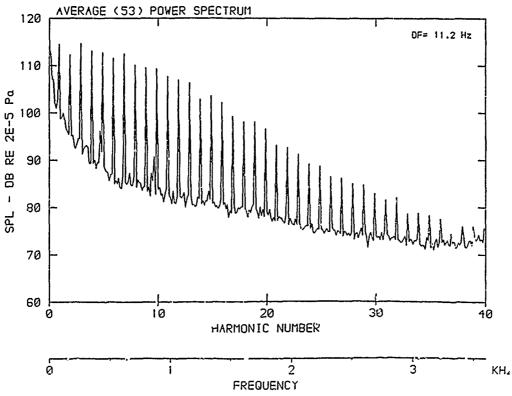
THE INVESTMENT OF THE PROPERTY
β: 19.9° MH: .8758 n: 2700 rpm v/u: .269 φ: .0° T: 287.0 K



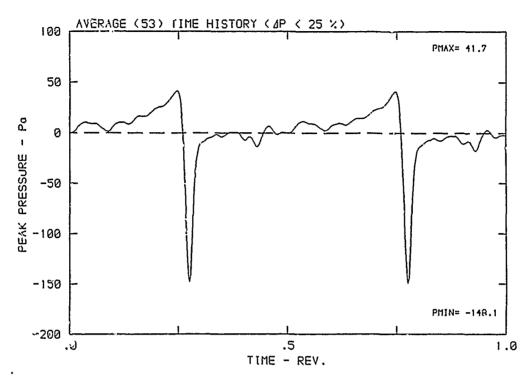


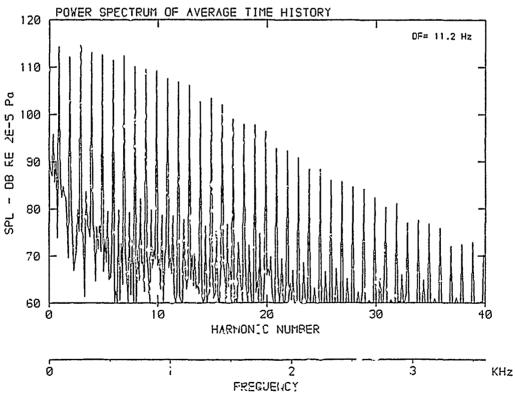
 $\beta\colon\: 19.9^{\circ}\:\:MH\text{: .8758 n: 2700 rpm}\:\:\text{v/u: .269}\:\:\varphi\colon\:.0^{\circ}\:\:\text{T: 287.0 K}$





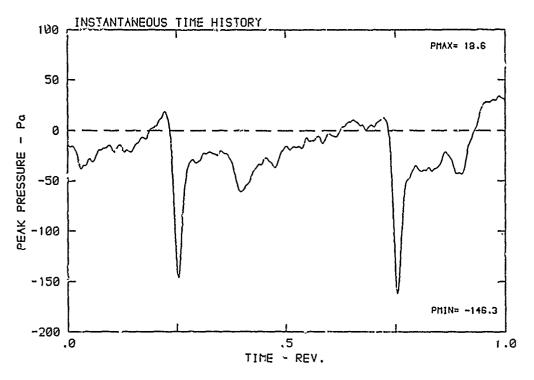
 β : 19.9° M₁': .8758 n: 2700 rpm v/u: .269 ϕ : .0° T: 287.0 K

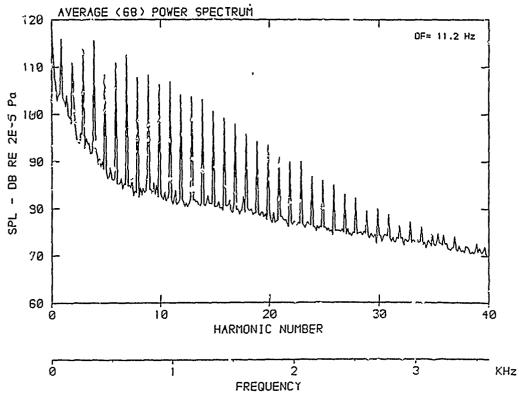




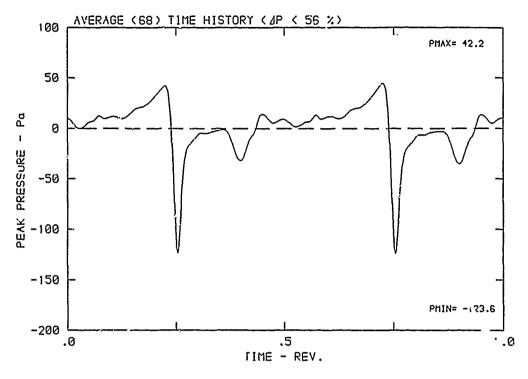
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β: 19.9° MH: .8758 n: 2700 rpm v/u: .269 φ: .0° T: 287.0 K

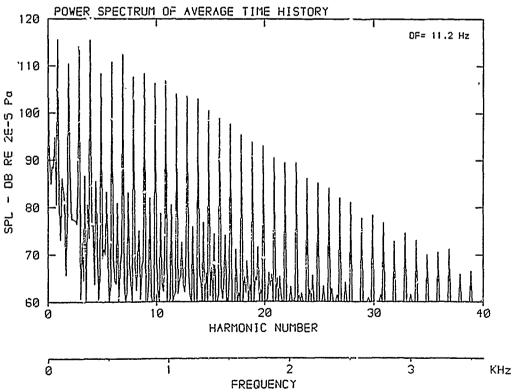




 $\beta\colon\,19.9^{o}$ MH: .8758 n: 2700 rpm v/u: .269 $\varphi\colon\,.0^{o}$ T: 287.0 K

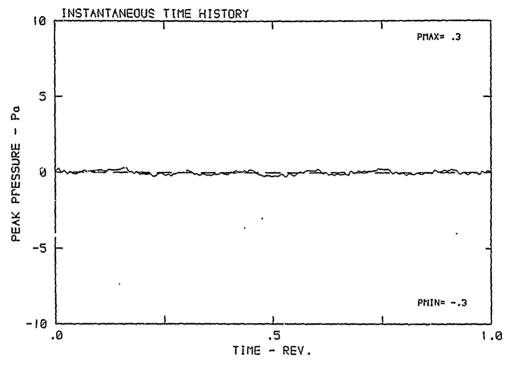


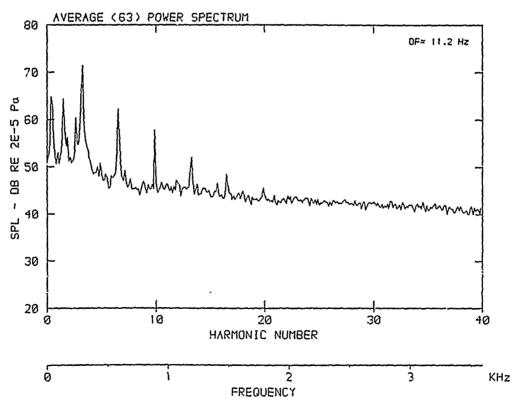
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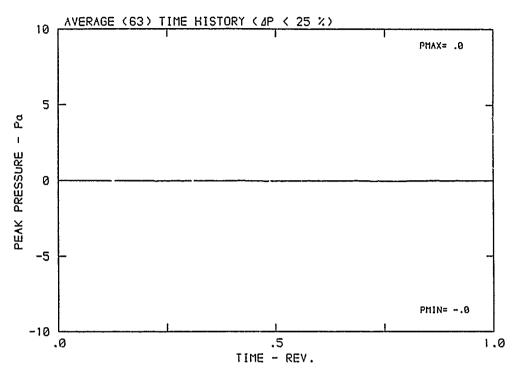
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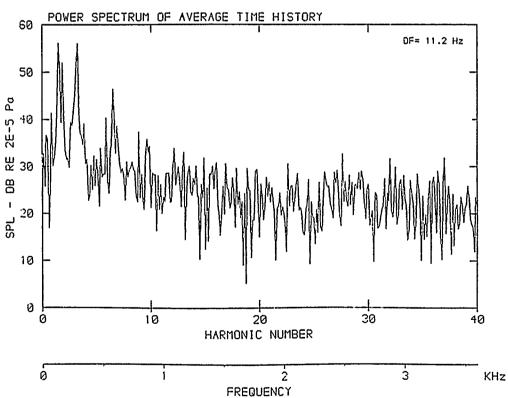
β: 19.9° MH: .8758 n: 2700 rpm v/u: .269 φ: .0° T: 287.0 K

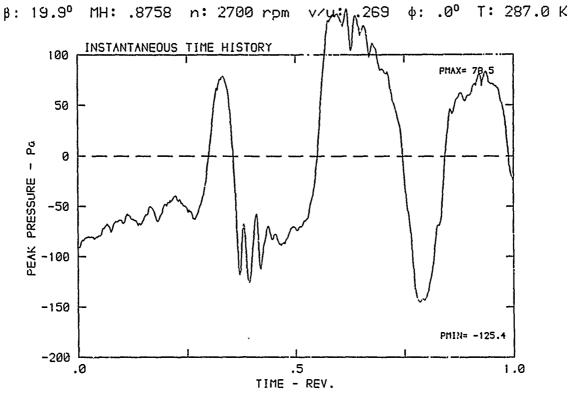




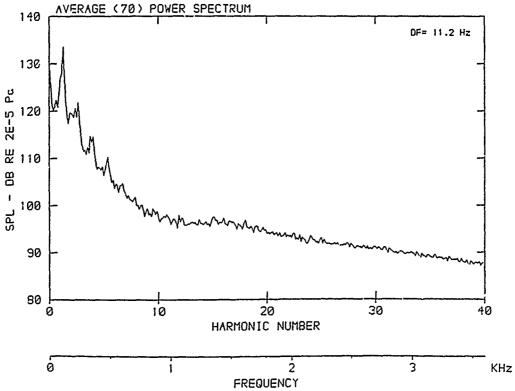
 $\beta\colon\,19.9^{o}\,$ MH: .8758 n: 2700 rpm v/u: .269 $\varphi\colon\,.0^{o}\,$ T: 287.0 K



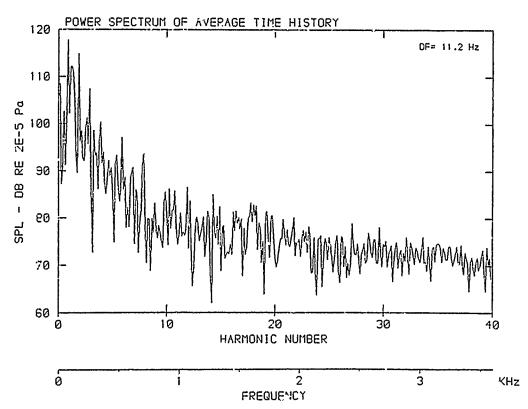


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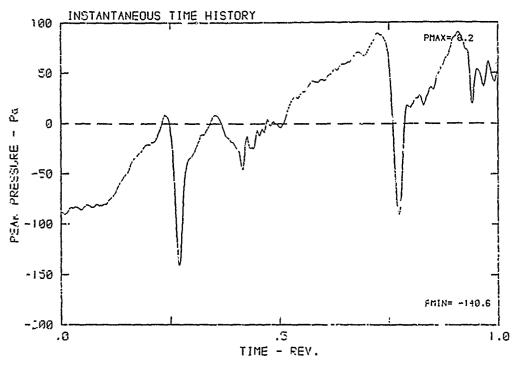


β: 19.9° n: 2700 rpm T: 287.0 K MH: .8758 .00 AVERAGE (70) TIME HISTORY (AP < 496 %) 30 PMAX= 25.9 20 10 PEAK PRESSURE - Pa 0 -10 -20 -30 -40 PMIN= -40.7 -50 .0 .5 TIME - REV. 1.0

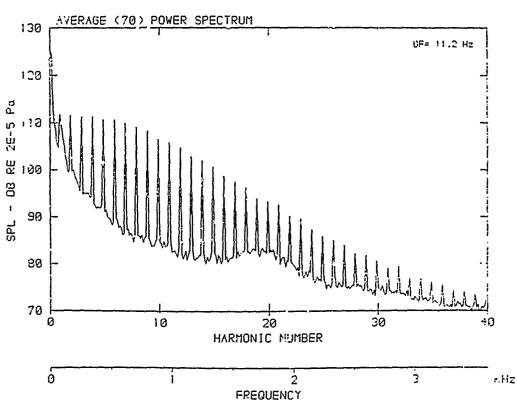


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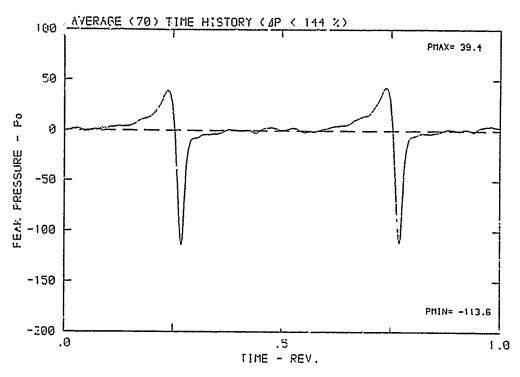
 $\beta\colon\,19.9^{o}\,$ MH: .8758 n: 2700 rpm v/u: .269 $\varphi\colon\,.0^{o}\,$ T: 287.0 K

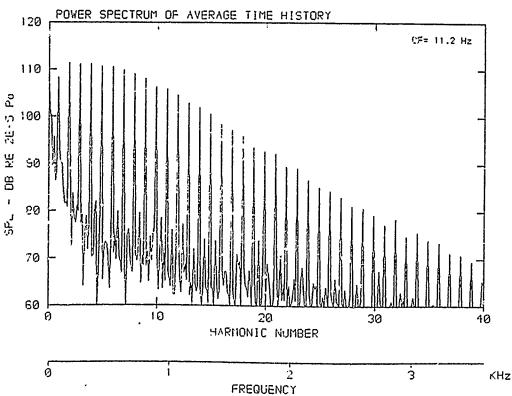


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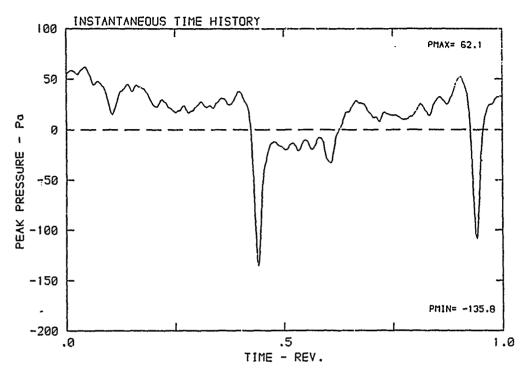
 β : 19.9° MH: .8758 n: 2700 rpm v/u: .269 ϕ : .0° T: 287.0 K



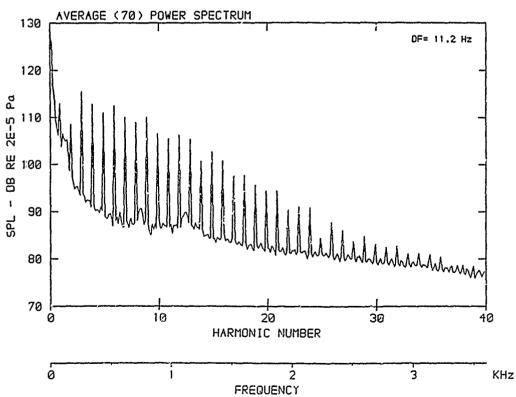


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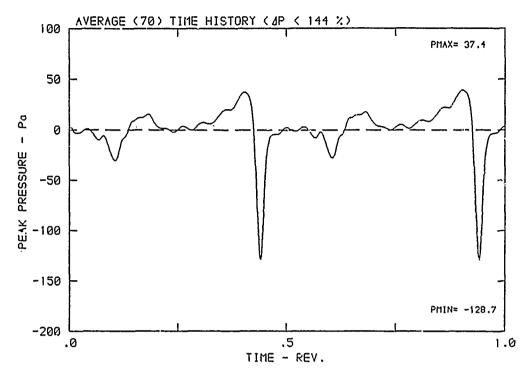
β: 19.9° MH: .8758 n: 2700 rpm v/u: .269 φ: .0° T: 287.0 K

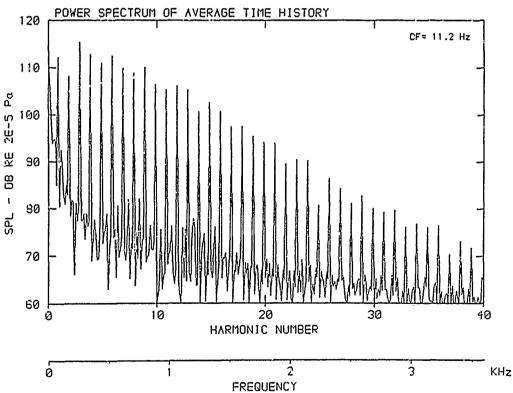


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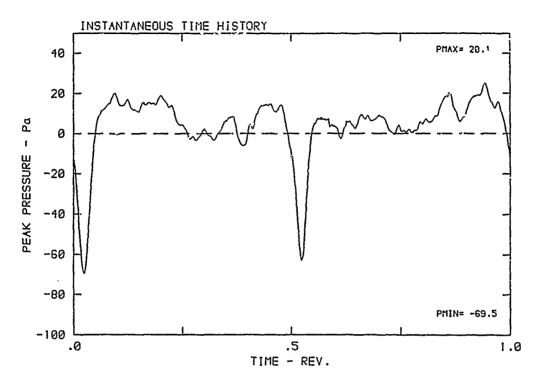
β: 19.9° MH; .8758 n: 2700 rpm v/u: .269 φ: .0° T: 287.0 K

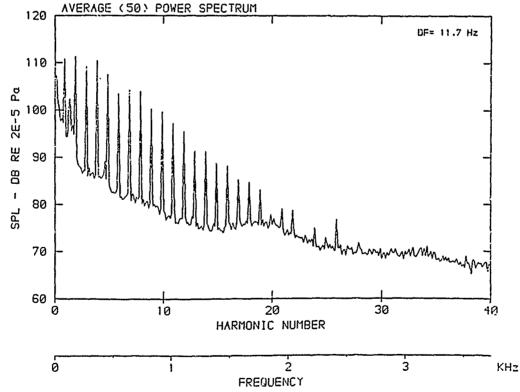




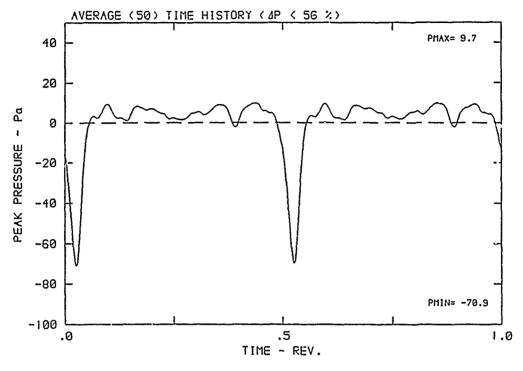
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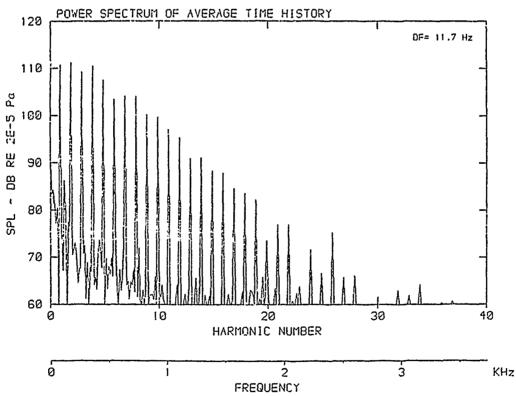
 β : 19.9° MH: .9026 n: 2800 rpm v/u: .258 ϕ : .0° T: 289.0 K



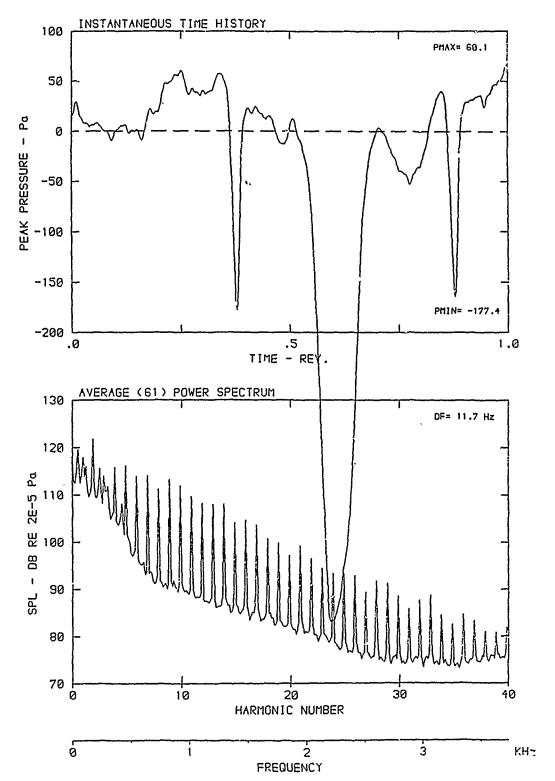


 β : 19.9° MH: .9026 n: 2800 rpm v/u: .258 ϕ : .0° T: 289.0 K

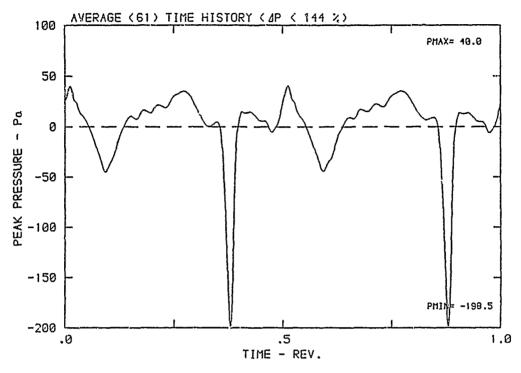


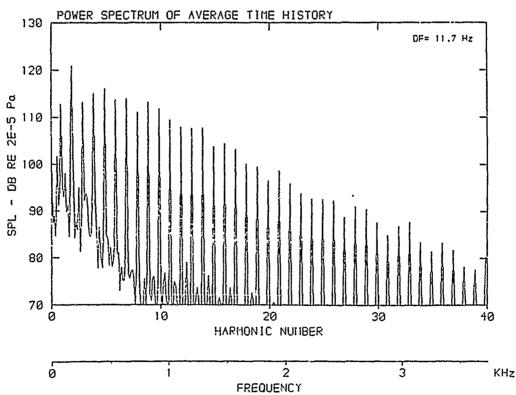


 $\beta\colon\,19.9^{o}\,$ MH: .9026 n: 2800 rpm v/u: .253 $\varphi\colon\,\text{,0}^{o}\,$ T: 289.0 K

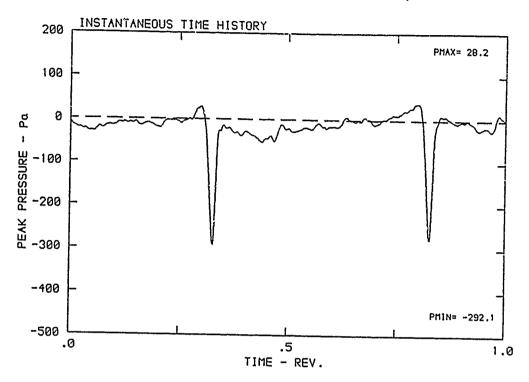


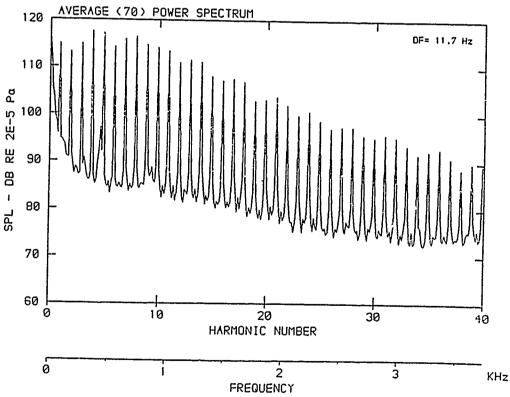
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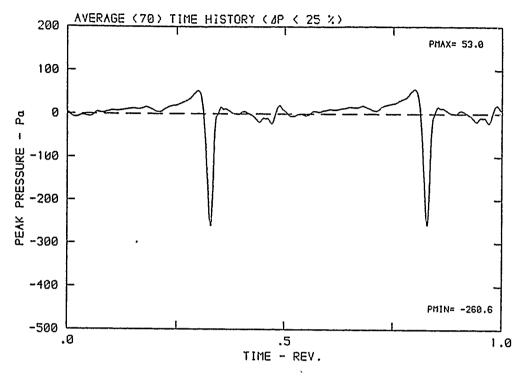


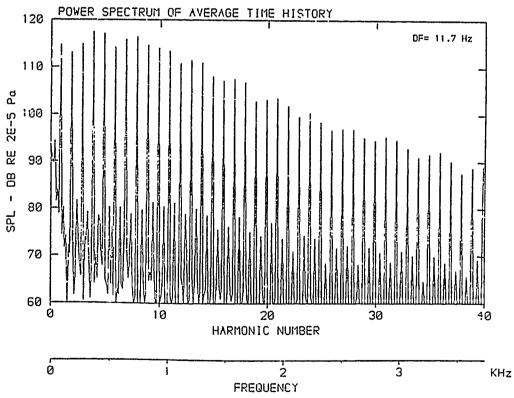
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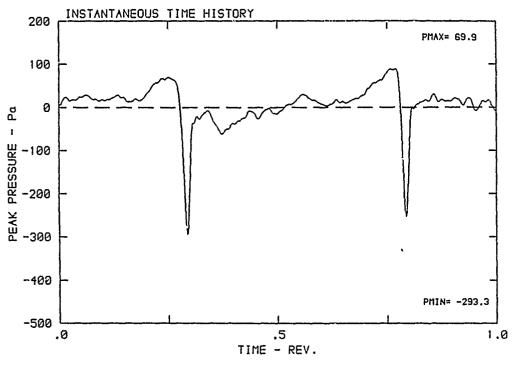


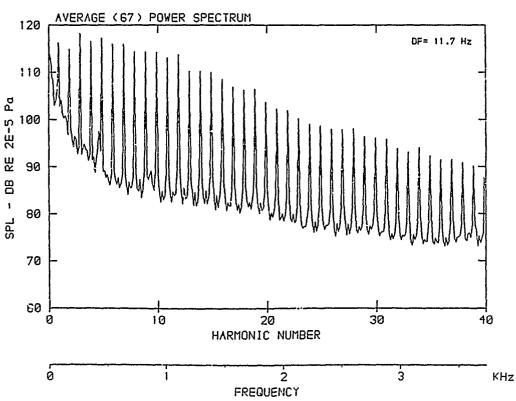
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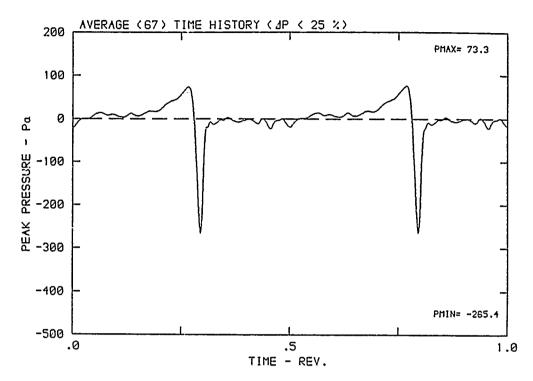


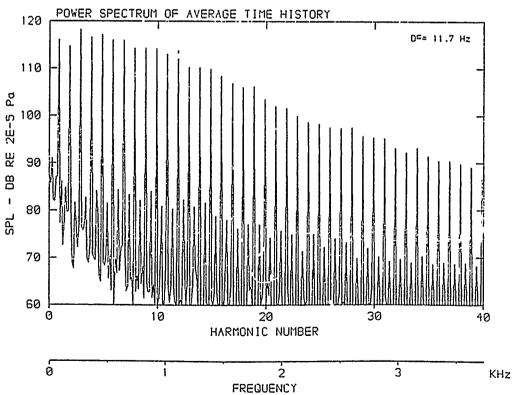
 β : 19.9° MH: .9026 n: 2800 rpm v/u: .258 ϕ : .0° T: 289.0 K



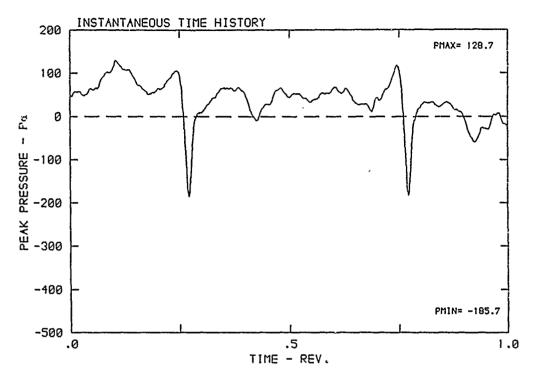


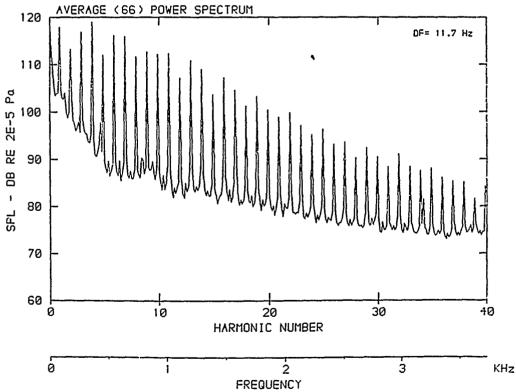
 β : 19.9° MH: .9026 n: 2800 rpm v/u: .258 ϕ : .0° T: 289.0 K



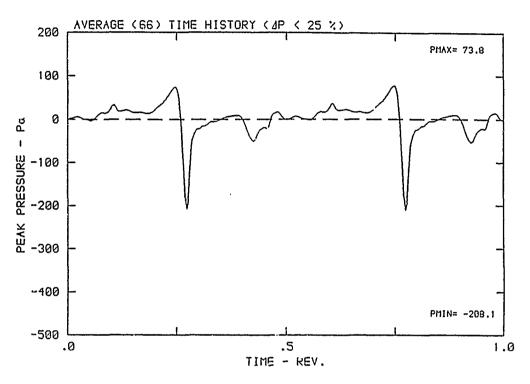


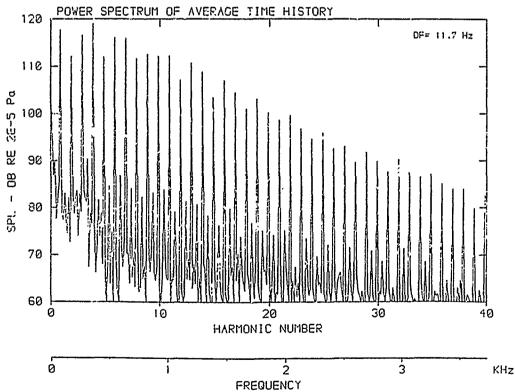
 β : 19.9° MH: .9026 n: 2800 rpm v/u: .258 ϕ : .0° T: 289.0 K



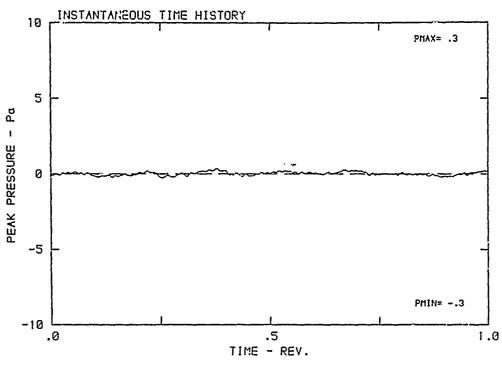


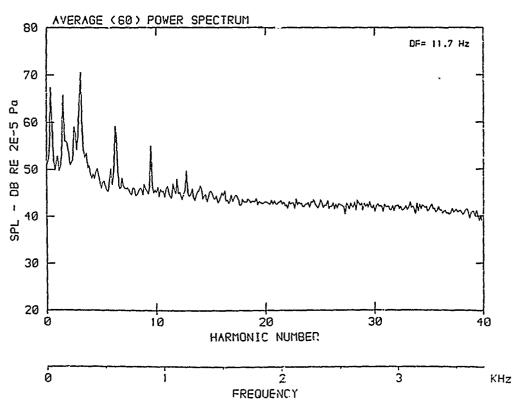
β: 19.9° MH: .9026 n: 2800 rpm v/u: .258 φ: .0° T: 289.0 K



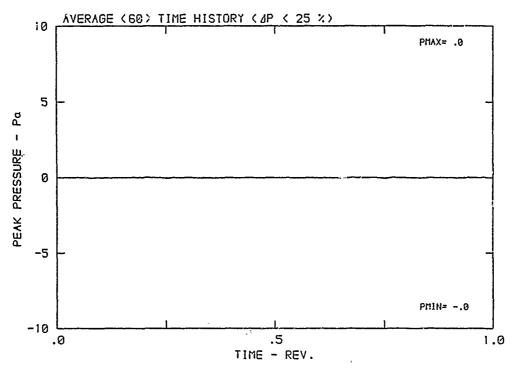


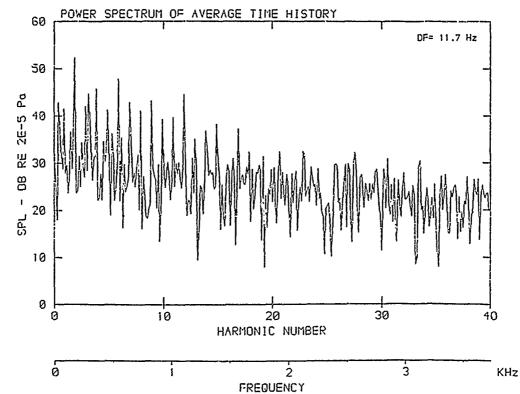
 $\beta\colon\,19.9^{\circ}\,$ MH: .9026 n: 2800 rpm v/u: .258 $\varphi\colon\,. \ensuremath{\nu^{\circ}}$ T: 289.0 K





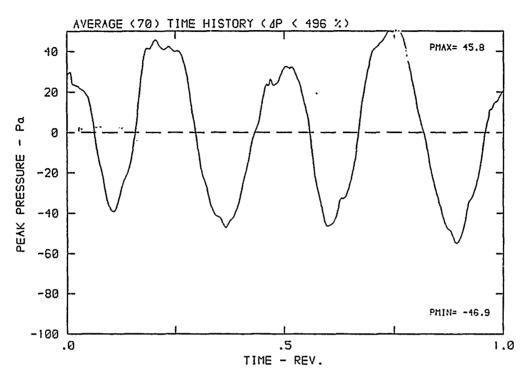
 β : 19.9° MH: .9026 n: 2800 rpm v/u: .258 ϕ : .0° T: 289.0 K

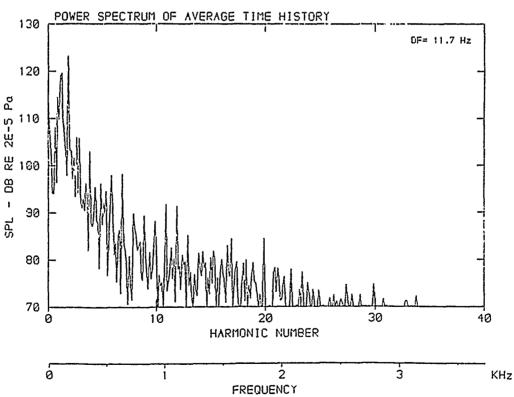




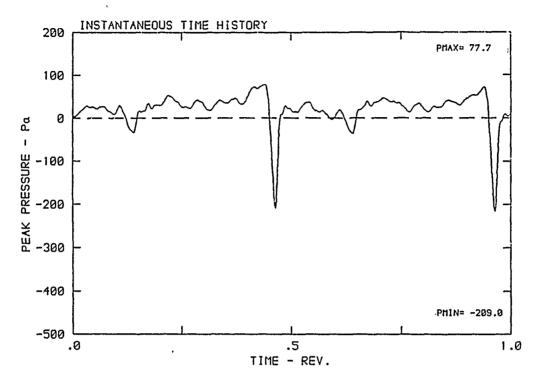
.00 v/u: .258 T: 289.0 K $\beta: 19.9^{0}$ MH: .9026 n: 2800 rpm INSTANTANEOUS TIME HIS/NORY 200 PMAX= 231.9 100 Pa PRESSURE -500 g -300 X -400 PMIN= -613.4 -500 .5 TIME - REV. .0 1.0 AVERAGE (70) POWER SPECTRUM 140 DF= 11.7 Hz 130 2E-5 051 051 W 110 80 100 90 80 20 10 30 40 HARMONIC NUMBER ő 3 ż KHz i FREQUENCY

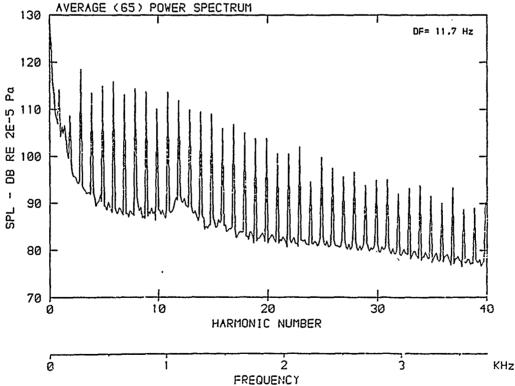
 $\beta\colon\,19.9^{o}$ MH: .9026 n: 2800 rpm v/u: .258 $\varphi\colon\,.0^{o}$ T: 289.0 K





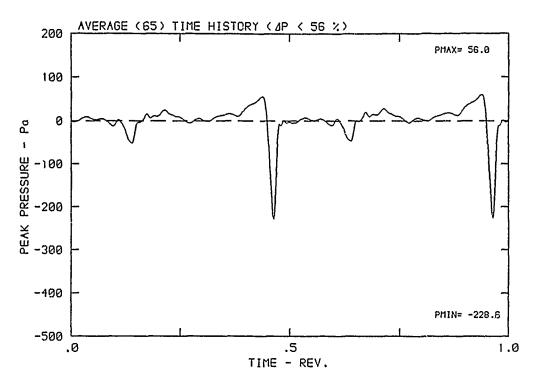
 β : 19.9° MH: .9026 n: 2800 rpm v/u: .258 ϕ : .0° T: 289.0 K

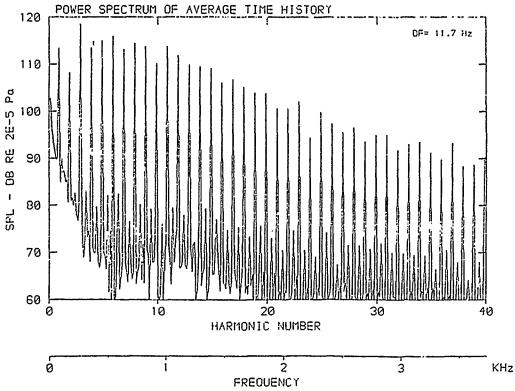




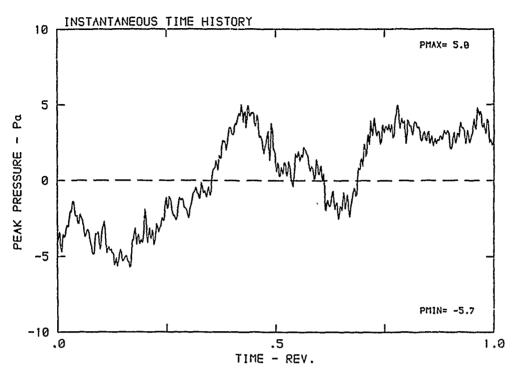
 β : 19.9° MH: .9026 n: 2800 rpm v/u: .258 ϕ : .0° T: 289.0 K

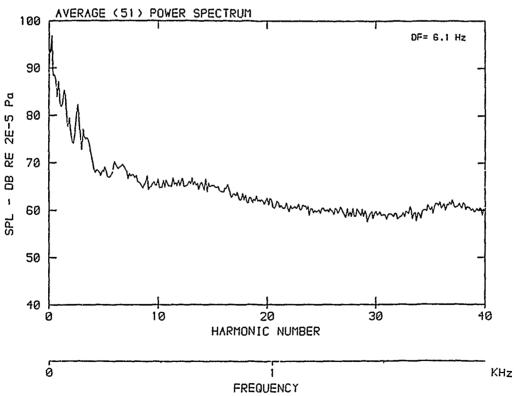
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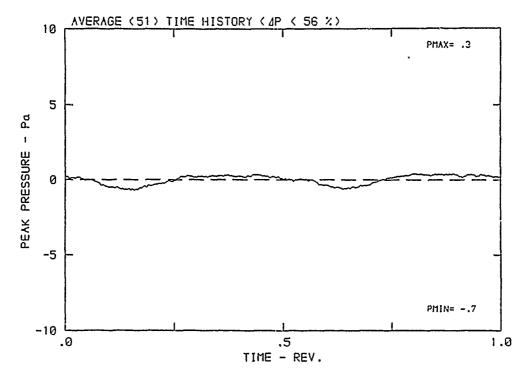
 $\beta\colon\,19.9^{o}\,$ MH: .4831 n: 1465 rpm v/u: .330 $\varphi\colon\,.0^{o}\,$ T: 287.3 K

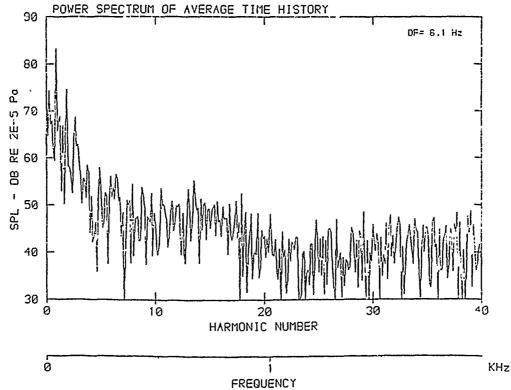




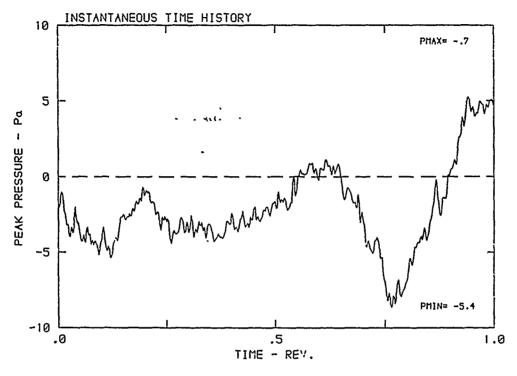
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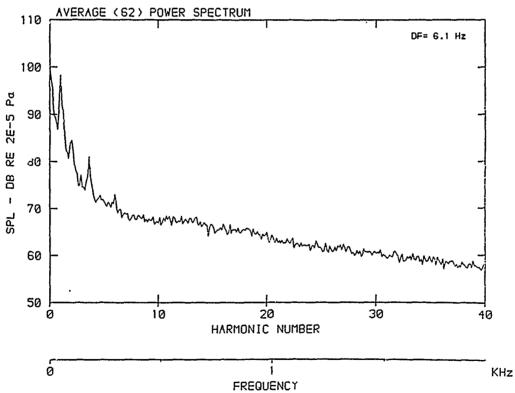
 β : 19.9° MH: .4831 n: 1465 rpm v/u: .330 ϕ : .0° T: 287.3 K



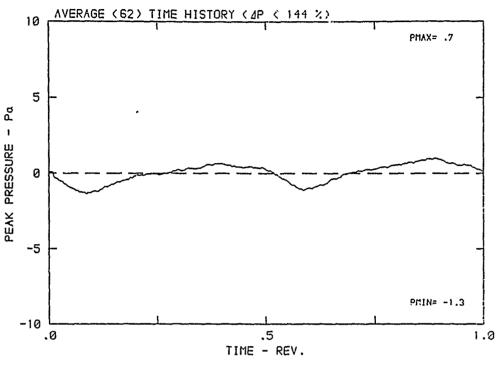


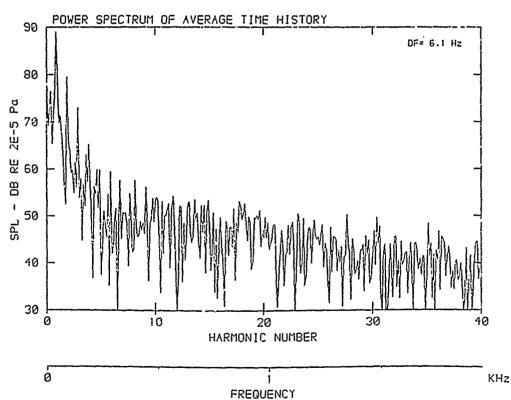
 $\beta\colon\,19.9^{o}\,$ MH: .4831 n: 1465 rpm v/u: .330 $\varphi\colon\,.0^{o}\,$ T: 287.3 K



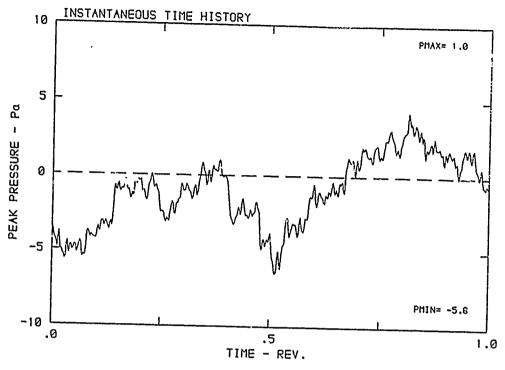


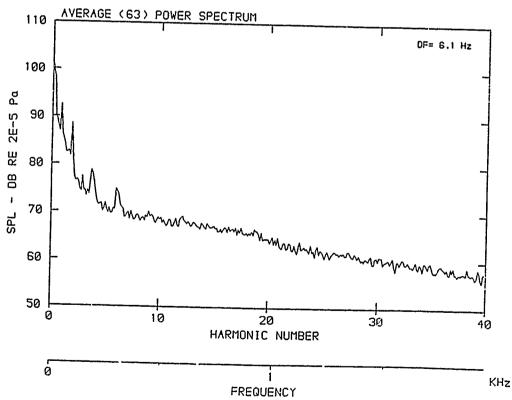
 $\beta\colon\,19.9^{o}$ MH: .4831 n: 1465 rpm v/u: .330 $\varphi\colon\,.0^{o}$ T: 287.3 K



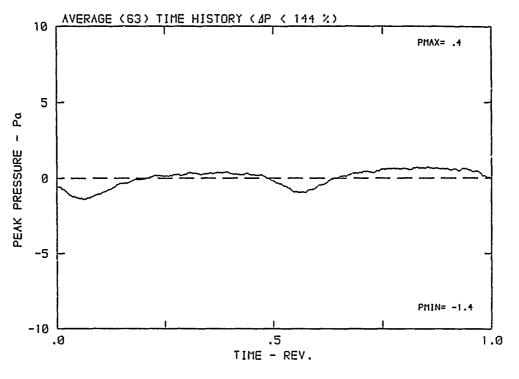


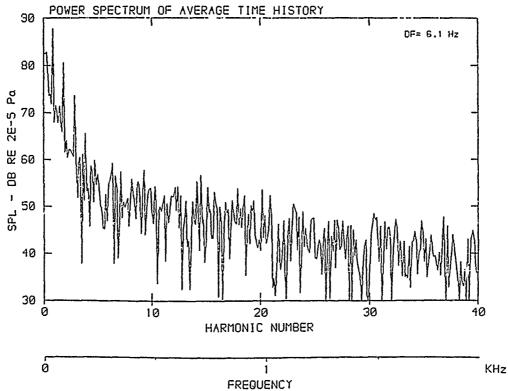
β: 19.9° MH: .4831 n: 1465 rpm v/u: .330 φ: .0° T: 287.3 K



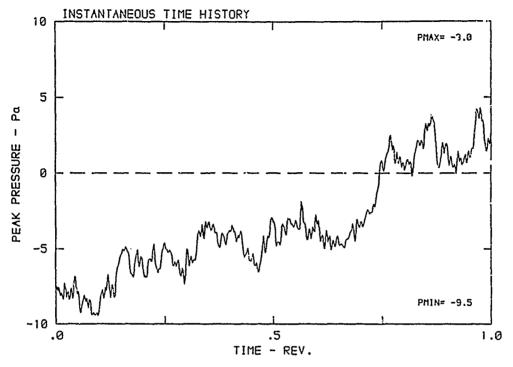


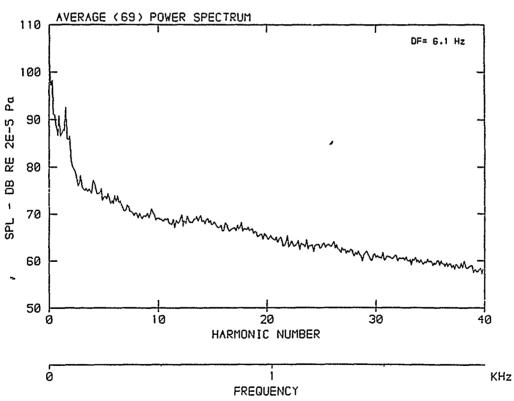
 β : 19.9° MH: .4831 n: 1465 rpm v/u: .330 ϕ : .0° T: 287.3 K



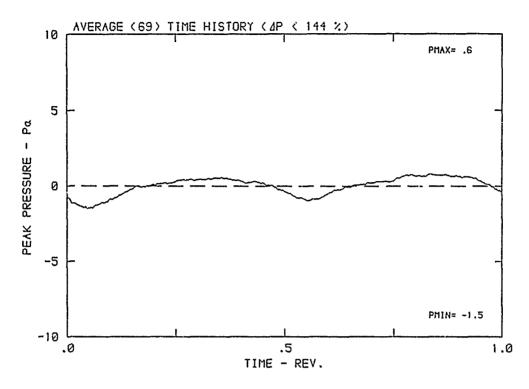


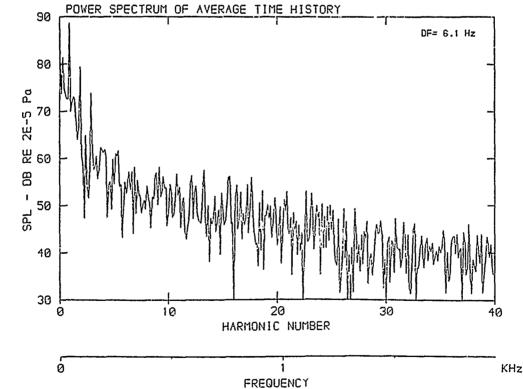
 $β: 19.9^{\circ}$ MH: .4831 n: 1465 rpm v/u: .330 φ: .0° T: 287.3 K



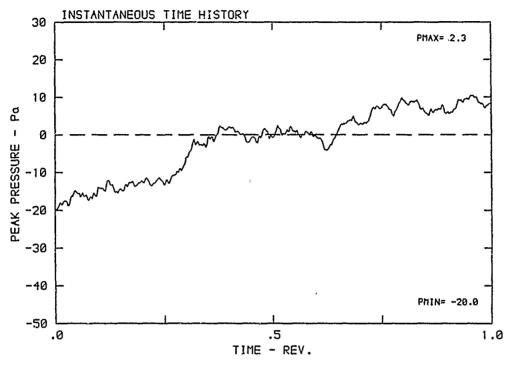


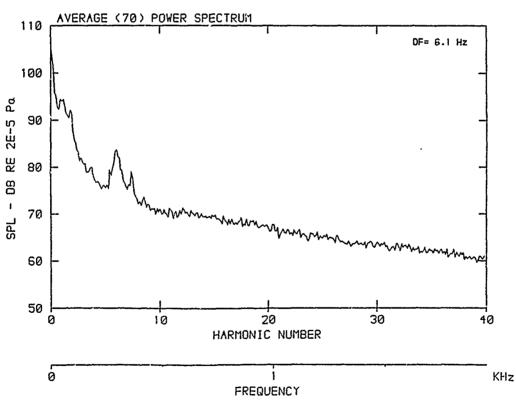
 β : 19.9° MH: .4831 n: 1465 rpm v/u: .330 ϕ : .0° T: 287.3 K





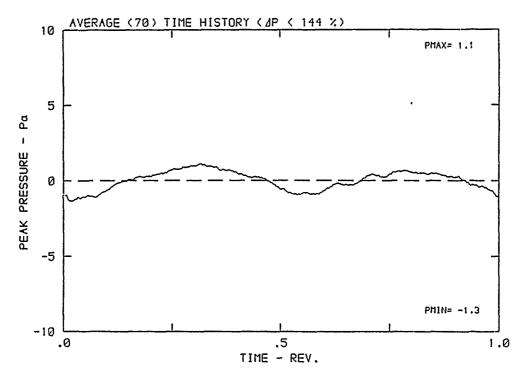
 β : 19.9° MH: .4831 n: 1465 rpm v/u: .330 ϕ : .0° T: 287.3 K

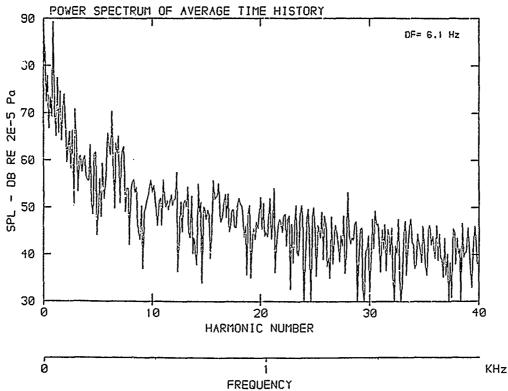




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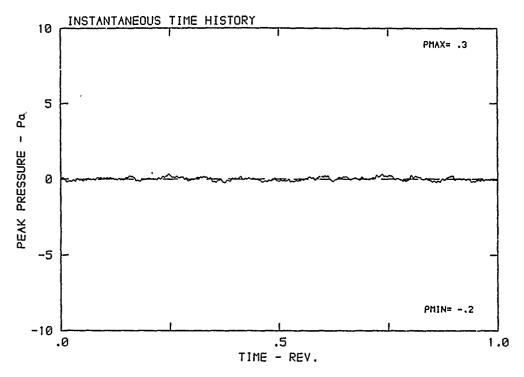
β: 19.9° MH: .4831 n: 1465 rpm ν/u: .330 φ: .0° T: 287.3 K

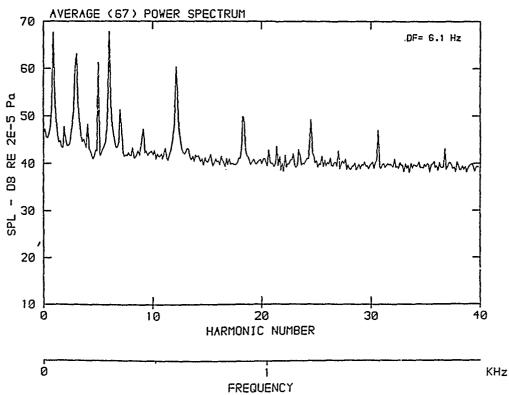




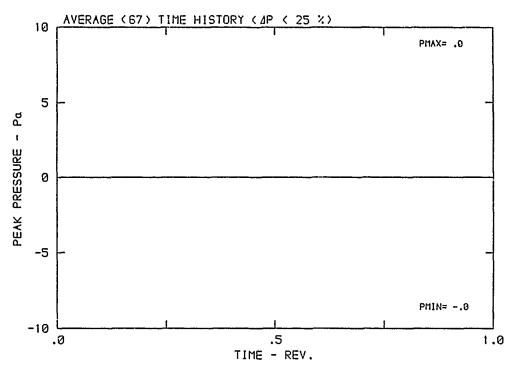
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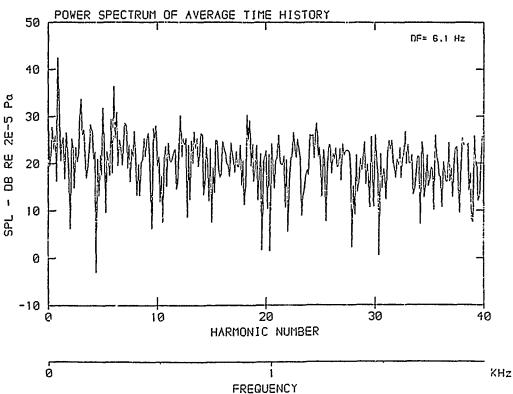
 β : 19.9° MH: .4831 n: 1465 rpm v/u: .330 ϕ : .0° T: 287.3 K





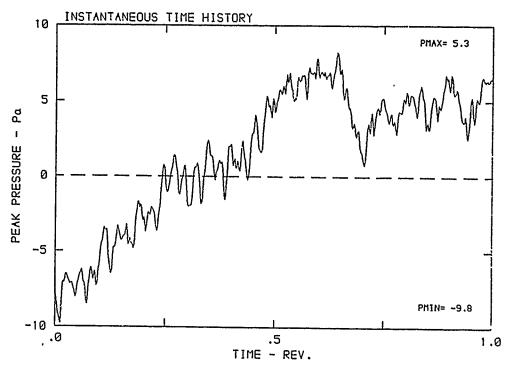
 $\beta\colon\,19.9^{o}\,$ MH: .4831 n: 1465 rpm $\,$ v/u: .330 $\,$ $\varphi\colon\,.0^{o}\,$ T: 287.3 K

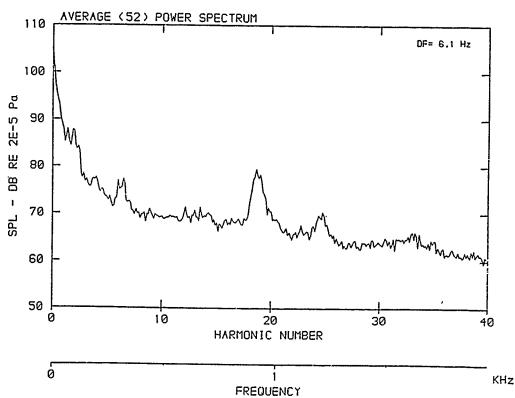




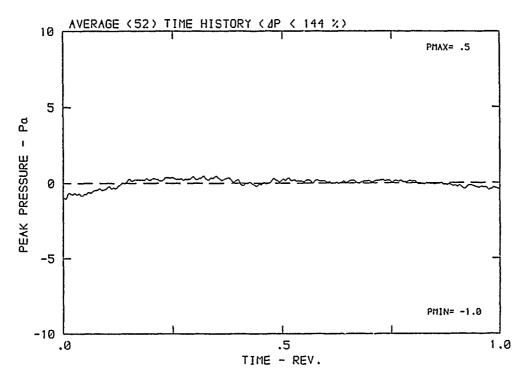
KKWING COSKII KEESKESKI KKOOOKK KKEEKKI KEESKOO HEE

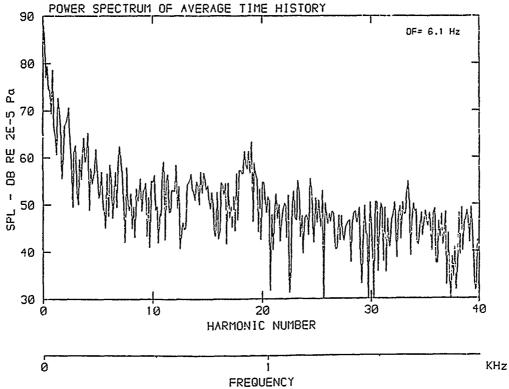
 β : 19.9° MH: .4831 n: 1465 rpm v/u: .330 ϕ : .0° T: 287.3 K





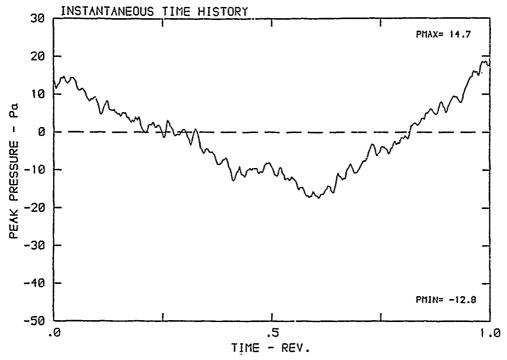
 $\beta\colon\,19.9^{o}\,$ MH: .4831 n: 1465 rpm v/u: .330 $\,\varphi\colon\,.0^{o}\,$ T: 287.3 K

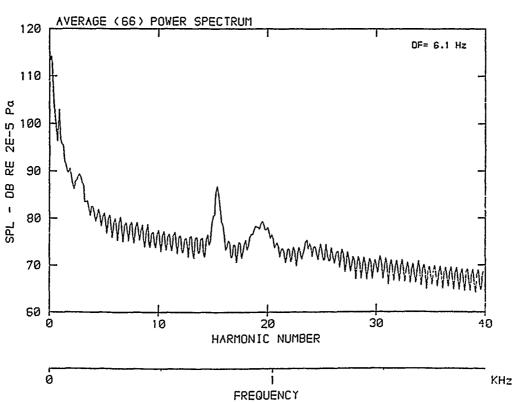




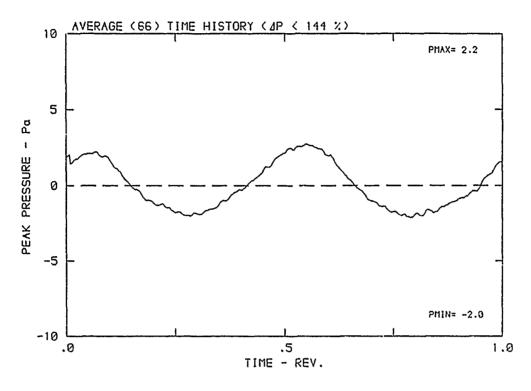
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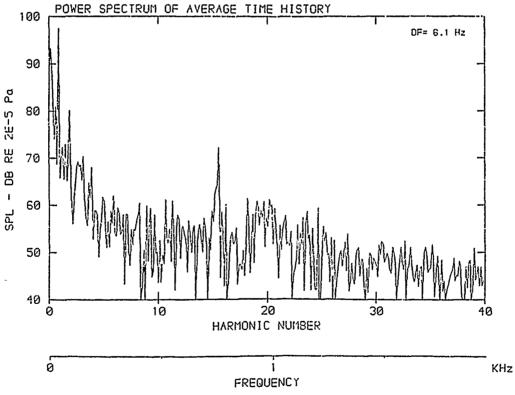
 β : 19.9° MH: .4831 n: 1465 rpm v/u: .330 ϕ : .0° T: 287.3 K



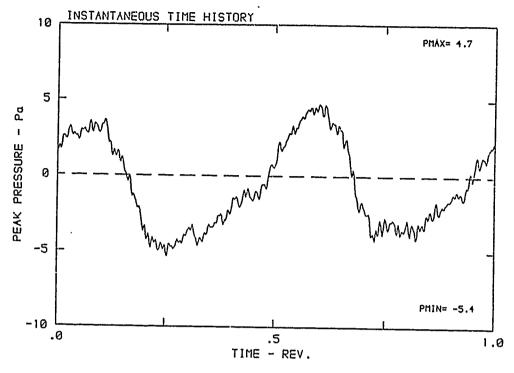


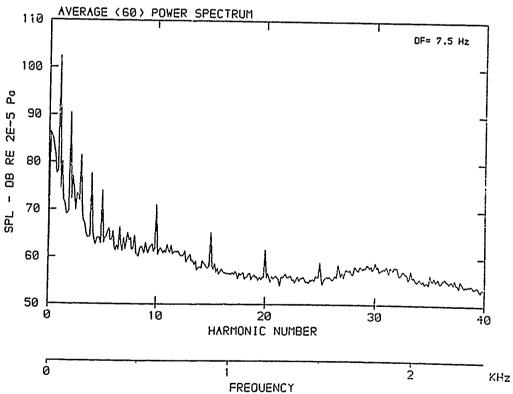
 $β: 19.9^{\circ}$ MH: .4831 n: 1465 rpm v/u: .330 φ: .0° T: 287.3 K



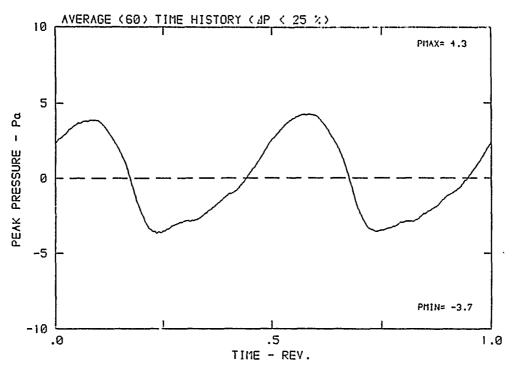


 β : 23.7° MH: .5745 n: 1800 rpm v/u: .200 ϕ : .0° T: 287.5 K

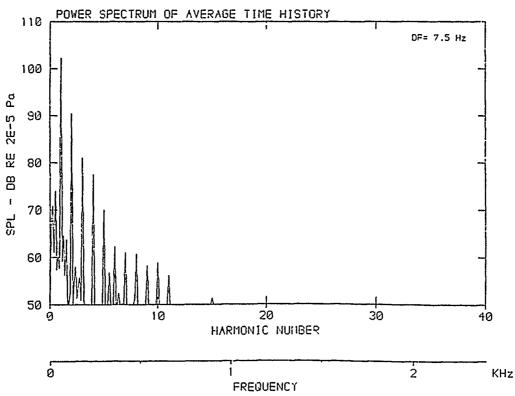




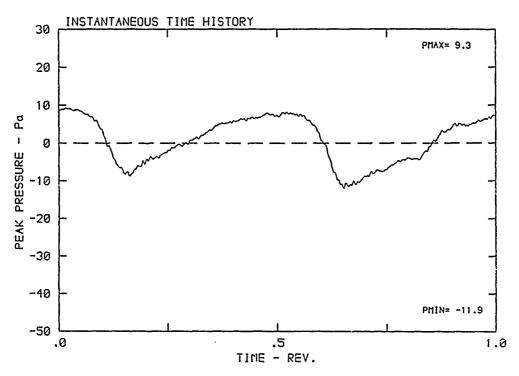
 $\beta\colon\,23.7^{o}\,$ MH: .5745 n: 1800 rpm v/u: .200 $\varphi\colon\,.0^{o}\,$ T: 287.5 K

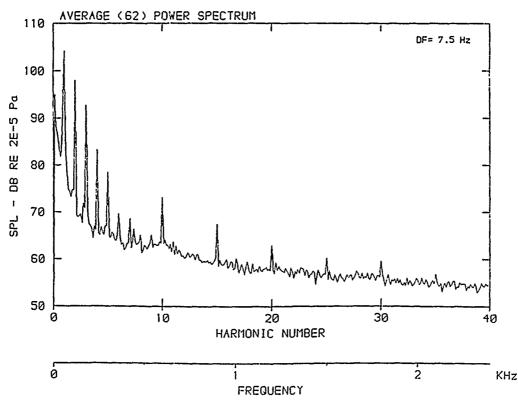


STATE SECTION

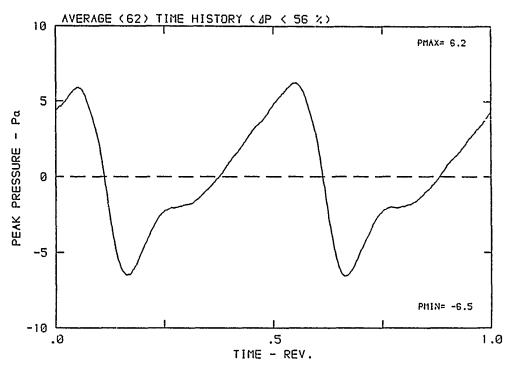


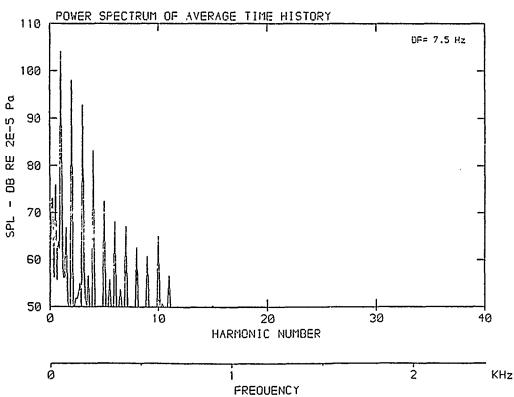
 β : 23.7° MH: .5745 n: 1800 rpm v/u: .200 ϕ : .0° T: 287.5 K



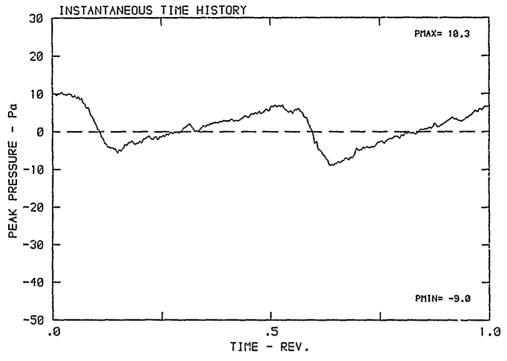


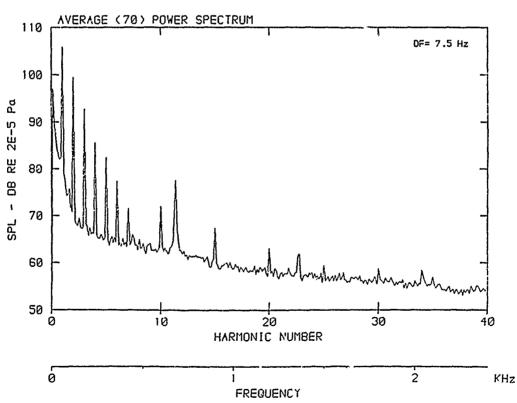
 β : 23.7° MH: .5745 n: 1800 rpm v/u: .200 ϕ : .0° T: 287.5 K



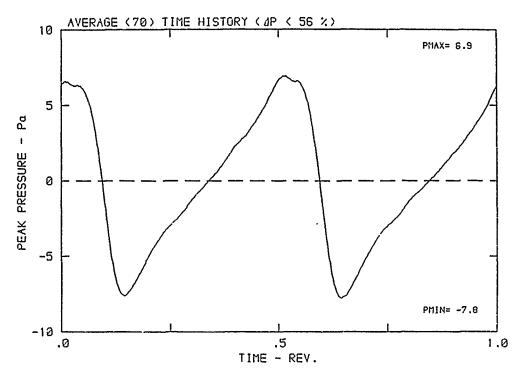


 β : 23.7° MH: .5745 n: 1800 rpm v/u: .200 ϕ : .0° T: 297.5 K

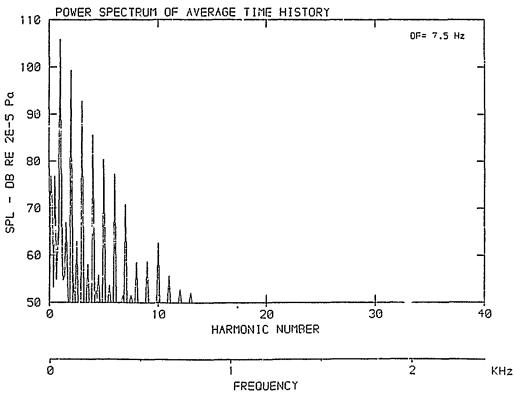




 β : 23.7° MH: .5745 n: 1800 rpm v/u: .200 ϕ : .0° T: 287.5 K

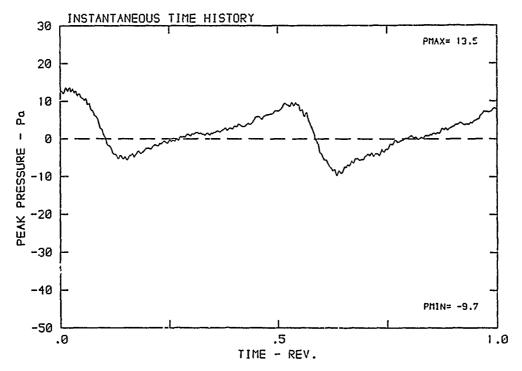


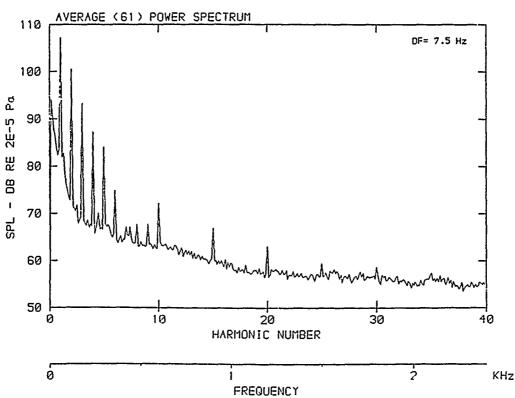
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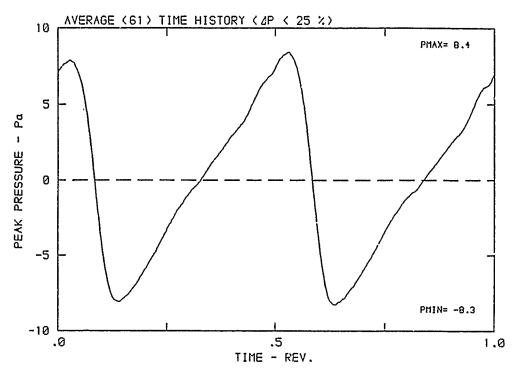
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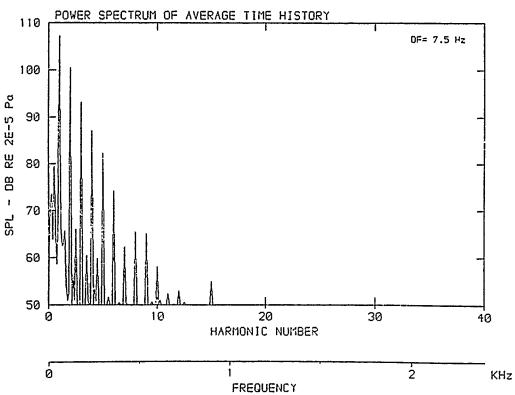
 β : 23.7° MH: .5745 n: 1800 rpm v/u: .200 ϕ : .0° T: 287.5 K



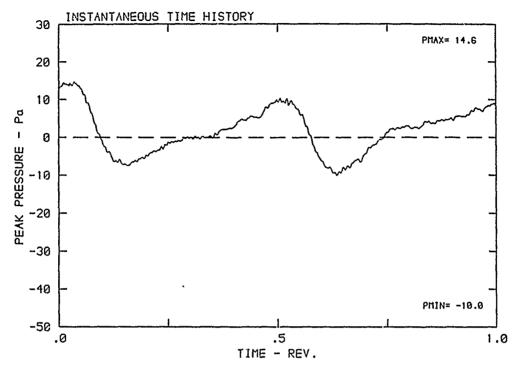


 β : 23.7° MH: .5745 n: 1800 rpm v/u: .200 ϕ : .0° T: 287.5 K

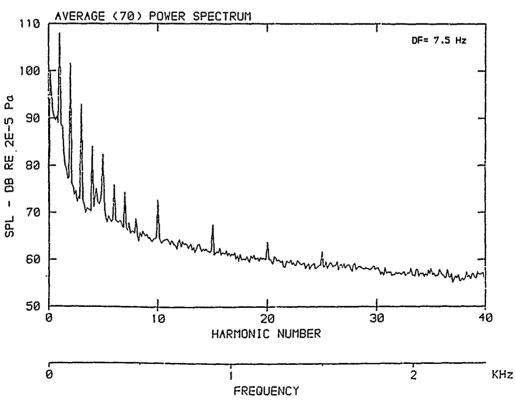




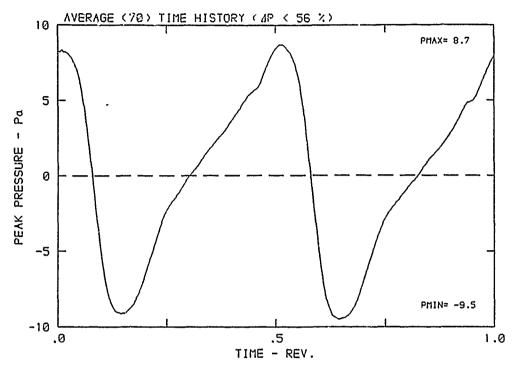
B: 23.7° MH: .5745 n: 1800 rpm v/u: .200 ϕ : .0° T: 287.5 K

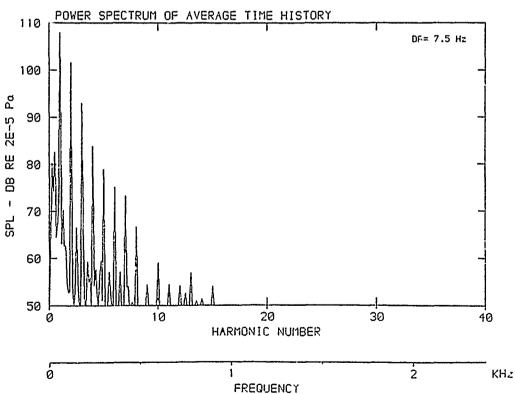


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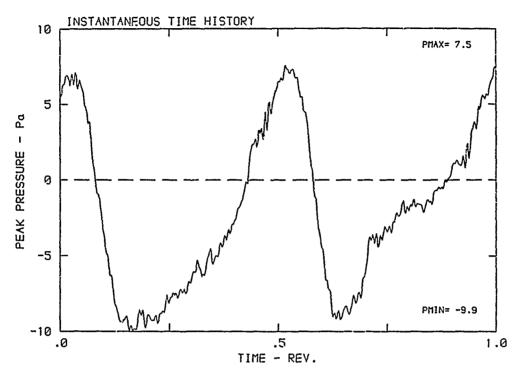


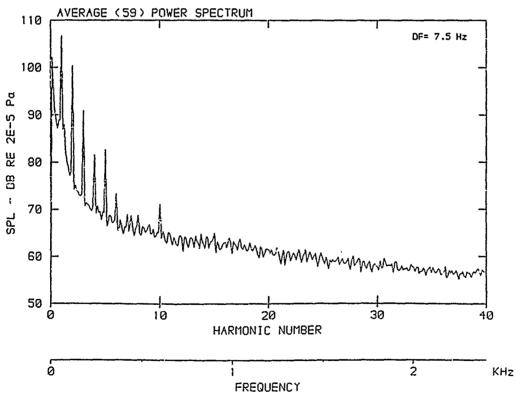
 β : 23.7° MH: .5745 n: 1800 rpm $\mbox{ v/u}$: .200 $\mbox{ }\phi$: .0° T: 287.5 K



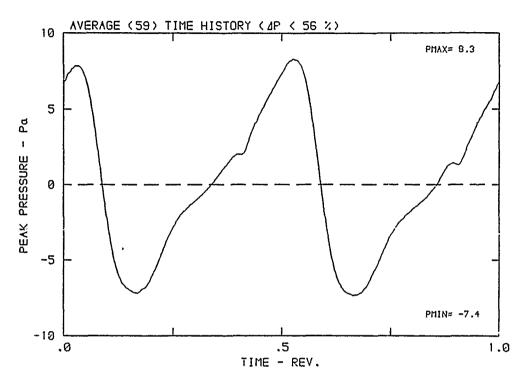


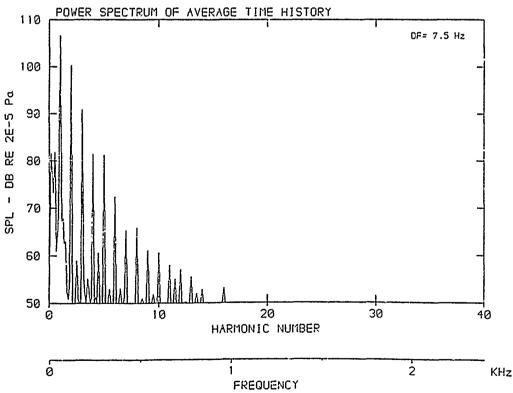
 β : 23.7° MH: .5745 n: 1800 rpm v/u: .200 ϕ : .0° T: 287.5 K



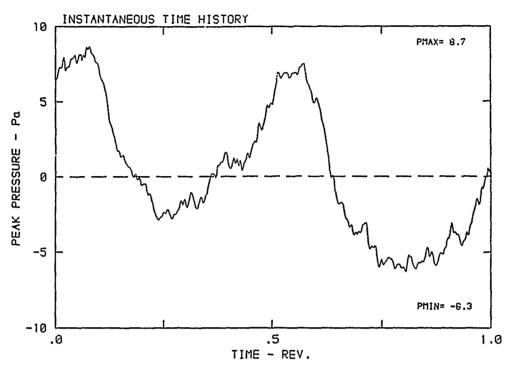


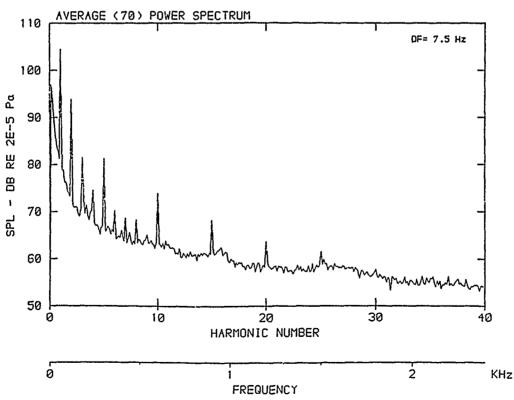
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 $\beta\colon\,23.7^{\circ}\,$ MH: .5745 n: 1800 rpm v/u: .200 $\varphi\colon\,.0^{\circ}\,$ T: 287.5 K





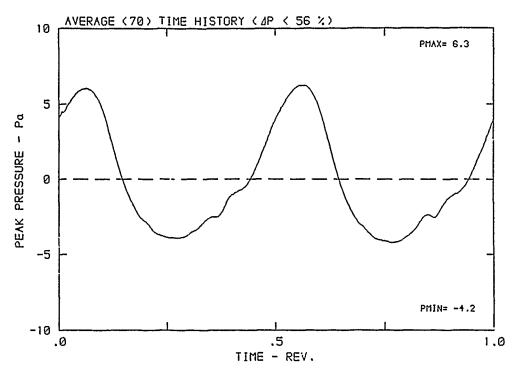
 β : 23.7° MH: .5745 n: 1800 rpm v/u: .200 ϕ : .0° T: 287.5 K

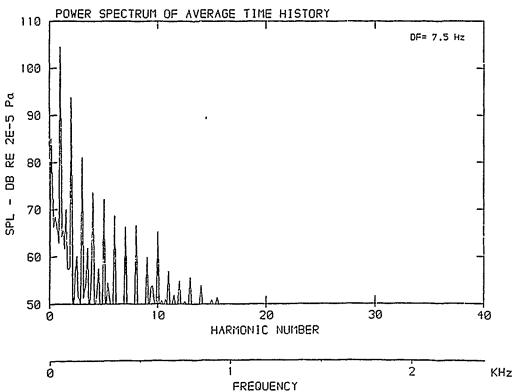




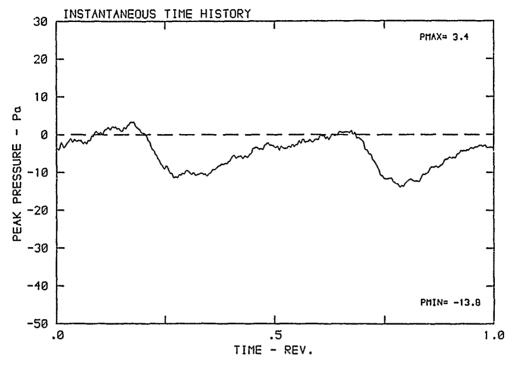
SAN INTERPORT WISELESS NICESSEES NICESSEES (CENTERS) NEWSERVER NOTESSEES

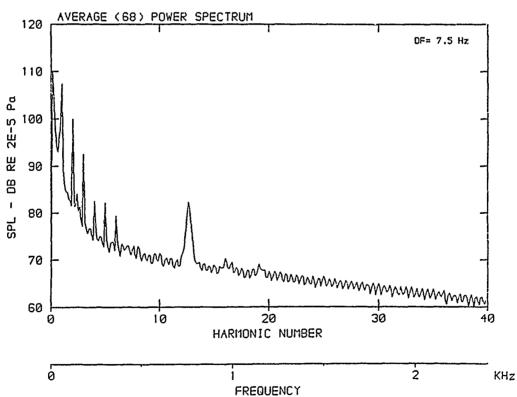
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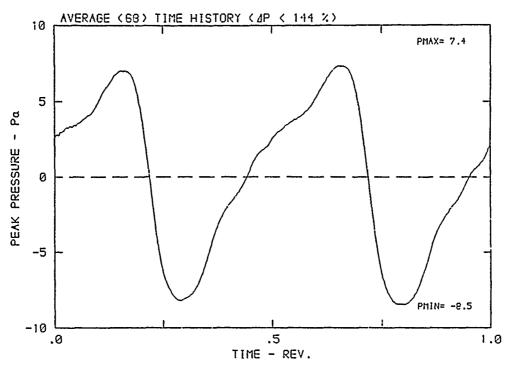


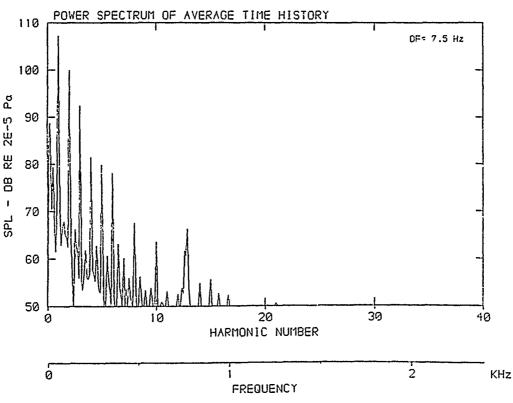
 β : 23.7° MH: .5745 n: 1800 rpm v/u: .200 ϕ : .0° T: 287.5 K



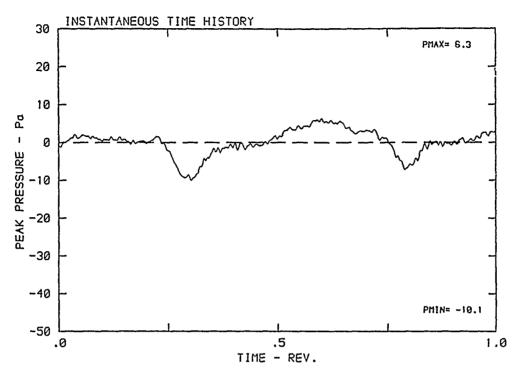


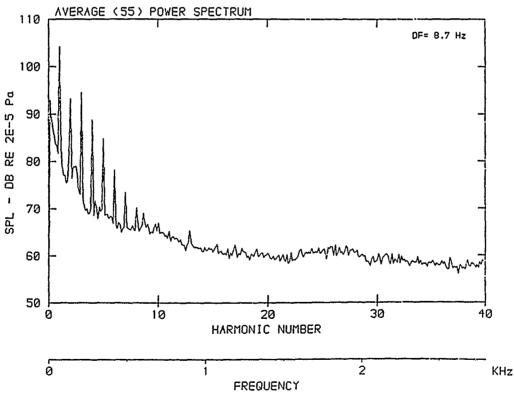
 $β: 23.7^{\circ}$ MH: .5745 n: 1800 rpm v/u: .200 $φ: .0^{\circ}$ T: 287.5 K



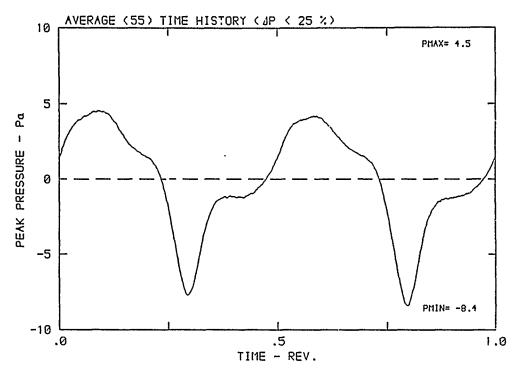


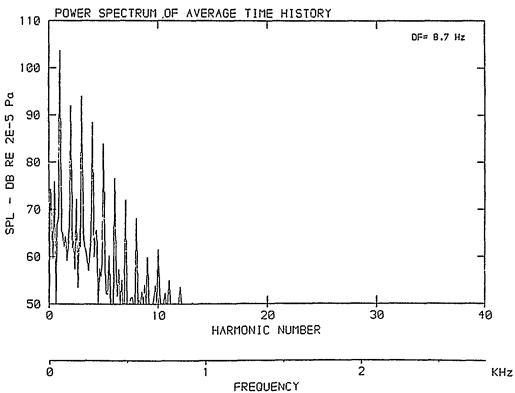
β: 23.7° MH: .6705 n: 2100 rpm v/u: .202 φ: .0° T: 287.5 K



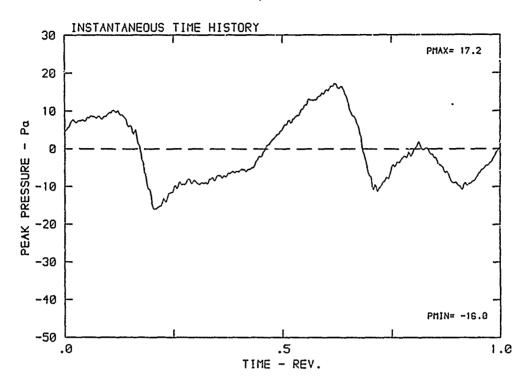


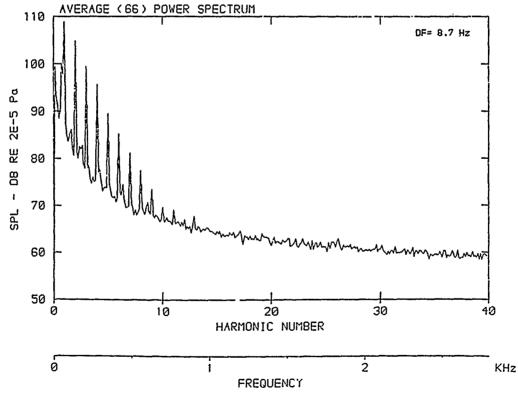
 $\beta\colon 23.7^{\circ}$ MH: .6705 n: 2100 rpm v/u: .202 $\varphi\colon .0^{\circ}$ T: 287.5 K



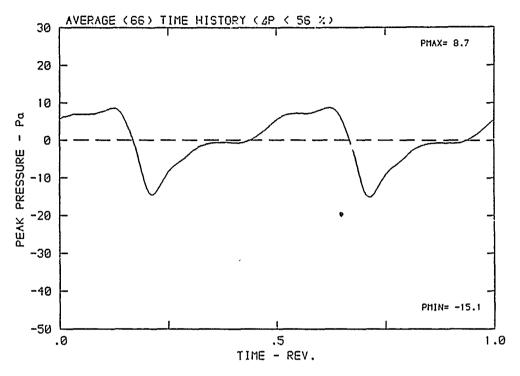


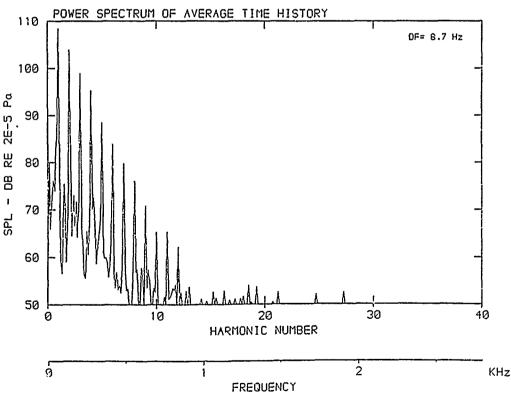
β: 23.7° MH: .6705 n: 2100 rpm ν/u: .202 φ: .0° T: 287.5 K



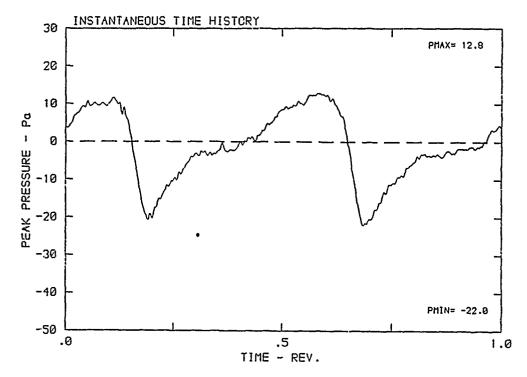


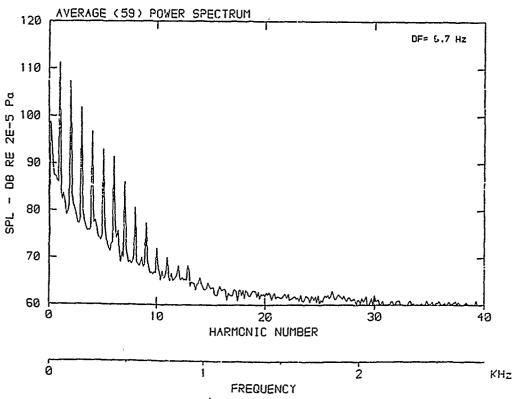
 β : 23.7° MH: .6705 n: 2100 rpm v/u: .202 ϕ : .0° T: 287.5 K



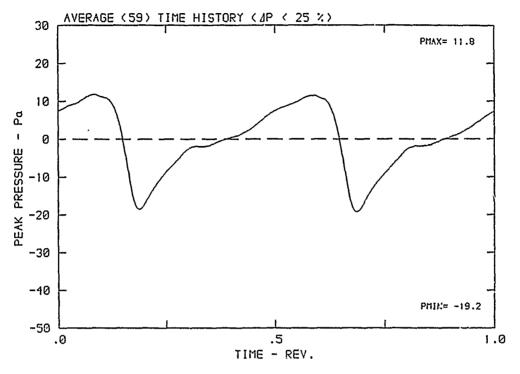


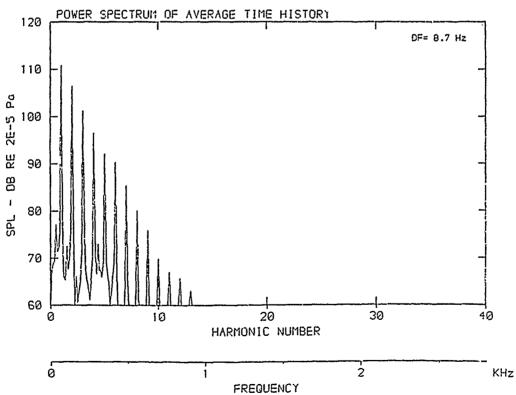
 $\beta\colon\,23.7^{\circ}\,$ MH: .6705 n: 2100 rpm v/u: .202 $\varphi\colon\,.0^{\circ}\,$ T: 287.5 K



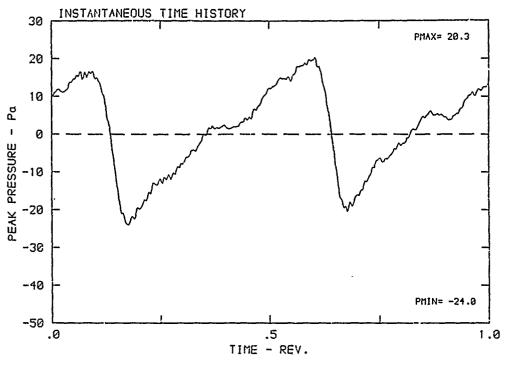


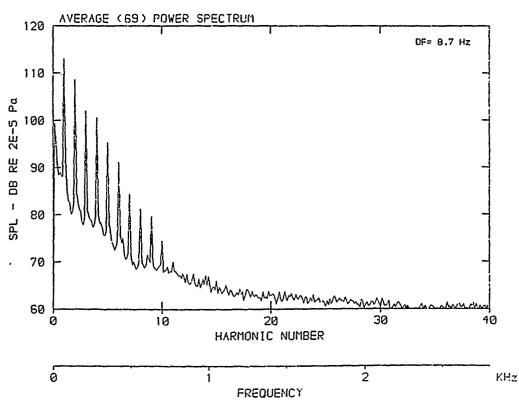
 β : 23.7° MH: .6705 n: 2100 rpm v/u: .202 ϕ : .0° T: 287.5 K



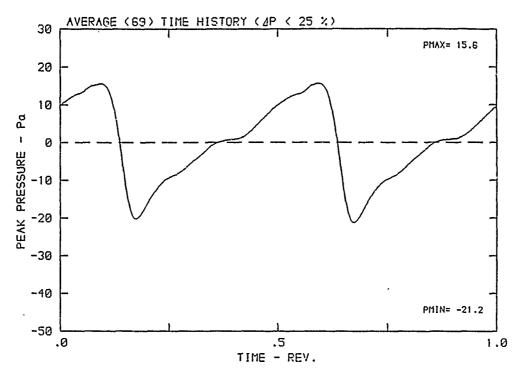


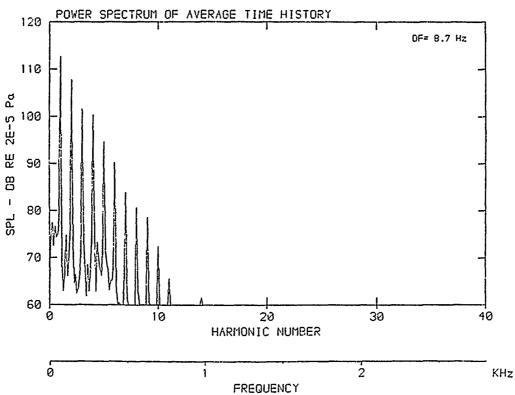
 $\beta\colon\,23.7^{\circ}\,$ MH: .6705 n: 2100 rpm v/u: .202 $\varphi\colon\,.0^{\circ}\,$ T: 287.5 K



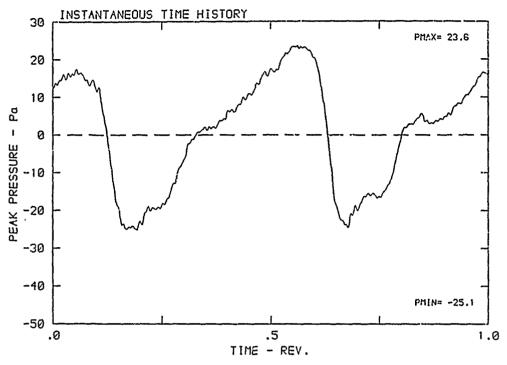


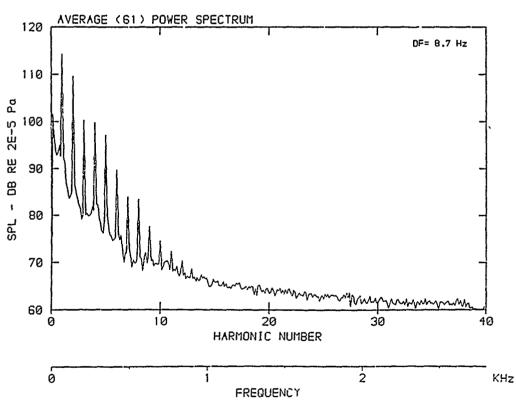
 β : 23.7° MH: .6705 n: 2100 rpm v/u: .202 ϕ : .0° T: 287.5 K





β: $23.7^{0'}$ MH: .6705 n: 2100 rpm v/u: .202 φ: .00 T: 287.5 K

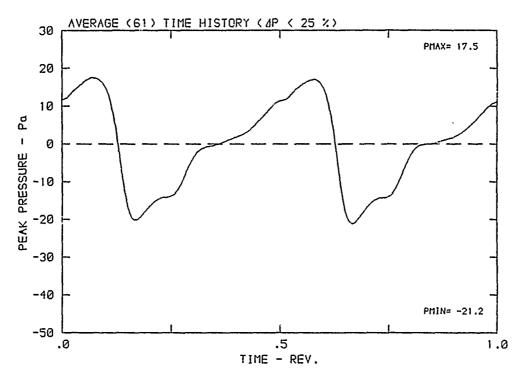


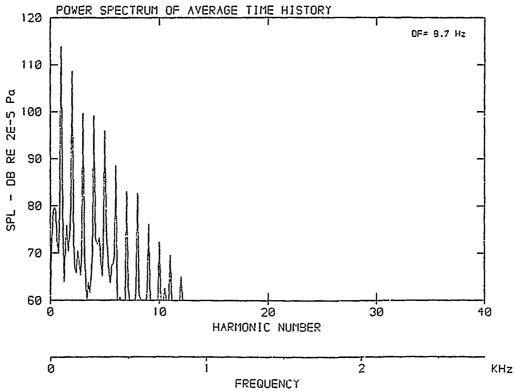


 $\beta\colon 23.7^{\circ}$ MH: .6705 n: 2100 rpm v/u: .202 $\varphi\colon .0^{\circ}$ T: 287.5 K

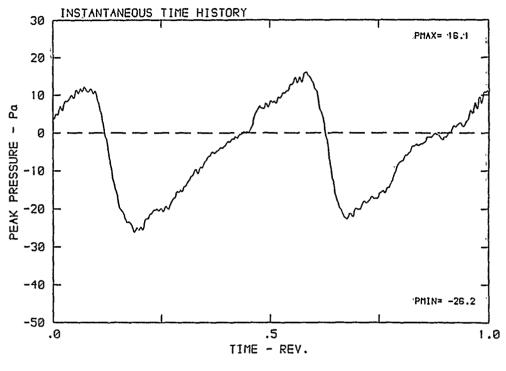
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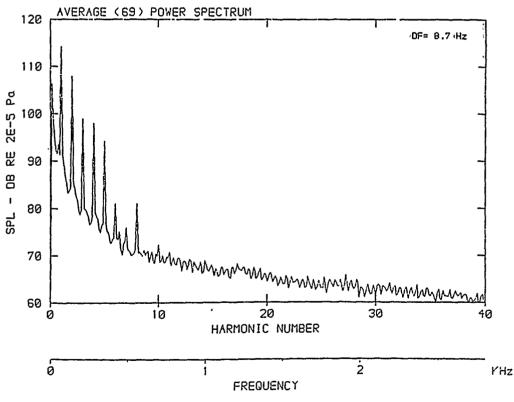




 $\beta\colon\,23.7^{\circ}$ MH: .6705 n: 2100 rpm v/u: .202 $\varphi\colon\,.0^{\circ}$ T: 287.5 K

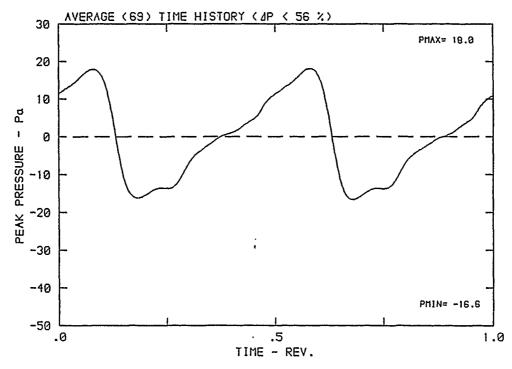


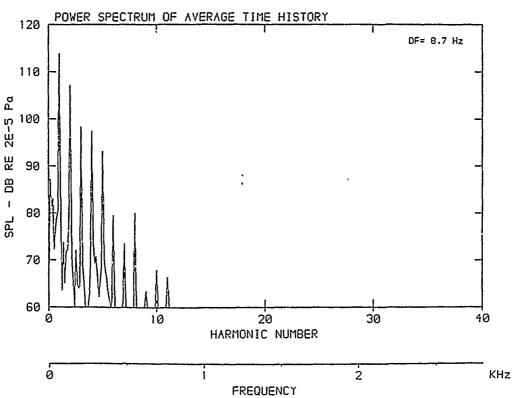
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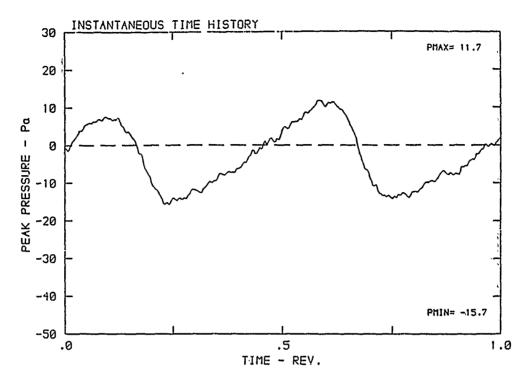
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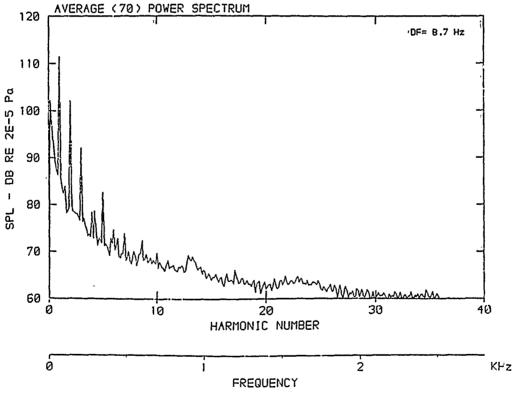
 β : 23.7° MH: .6705 n: 2100 rpm v/u: .202 ϕ : .0° T: 287.5 K



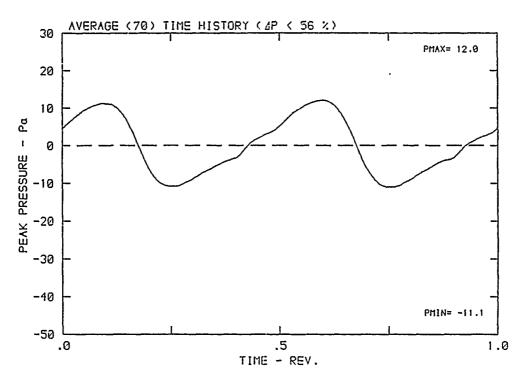


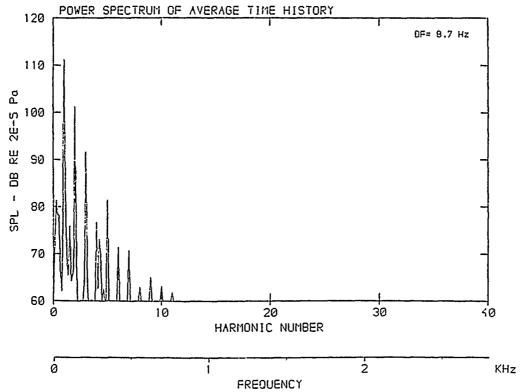
β: 23.7° MH: .6705 n: 2100 rpm v/u: .202 φ: .0° T: 287.5 K



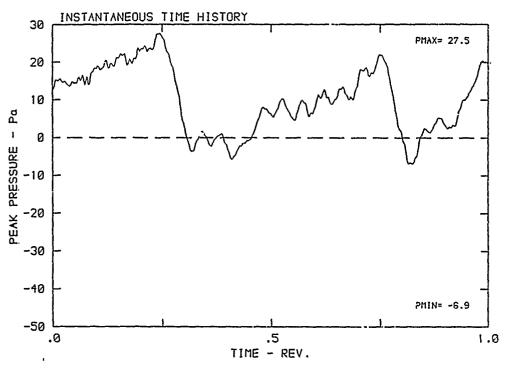


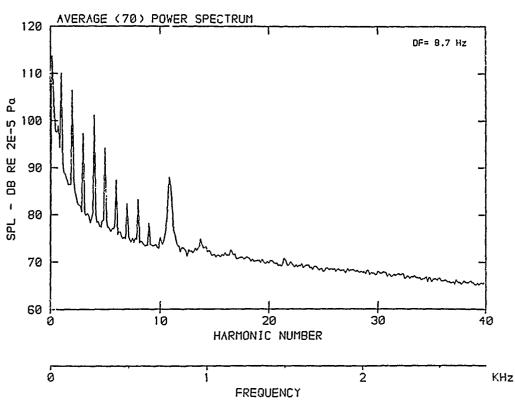
 $\beta\colon\,23.7^{\circ}\,$ MH: .6705 n: 2100 rpm v/u: .202 $\varphi\colon\,.0^{\circ}\,$ T: 287.5 K



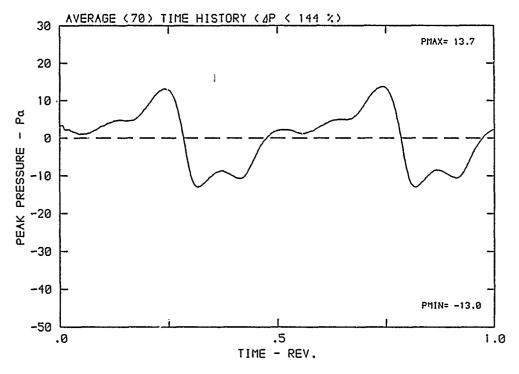


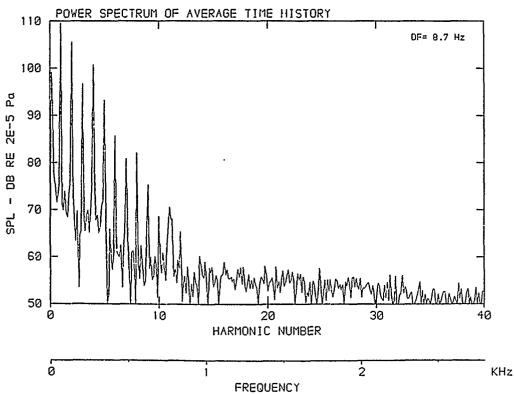
 $\beta\colon 23.7^{\circ}$ NH: .6705 n: 2100 rpm v/u: .202 $\varphi\colon .0^{\circ}$ T: 287.5 K



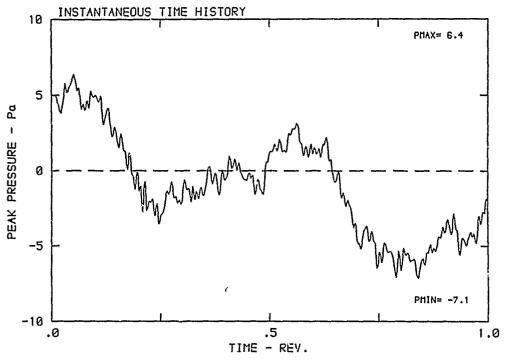


 $\beta\colon\,23.7^{o}$ MH: .6705 n: 2100 pm v/u: .202 $\varphi\colon\,.0^{o}$ T: 287.5 K

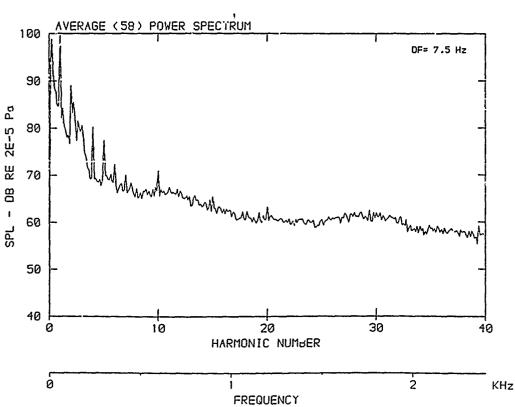




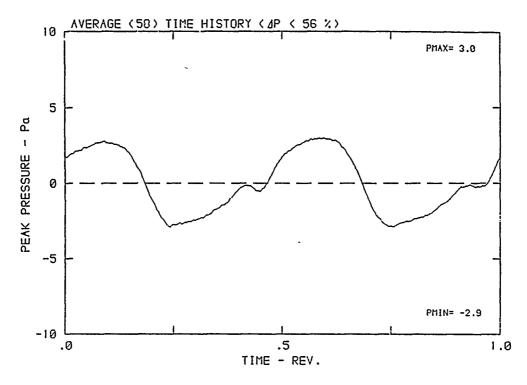
 $\beta\colon\,23.7^{\circ}\,$ MH: .5838 n: 1800 rpm v/u: .269 $\varphi\colon\,.0^{\circ}\,$ T: 287.1 K

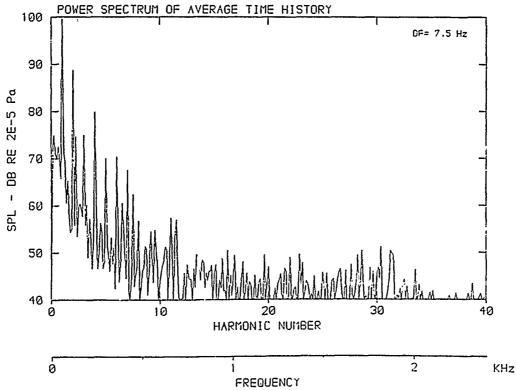


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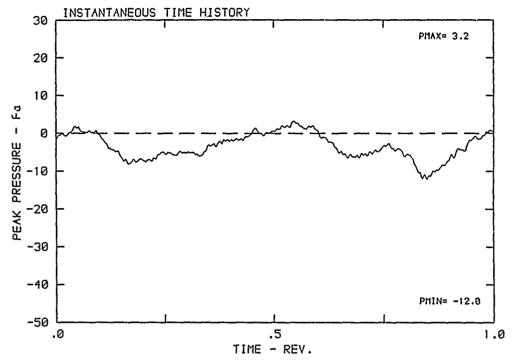


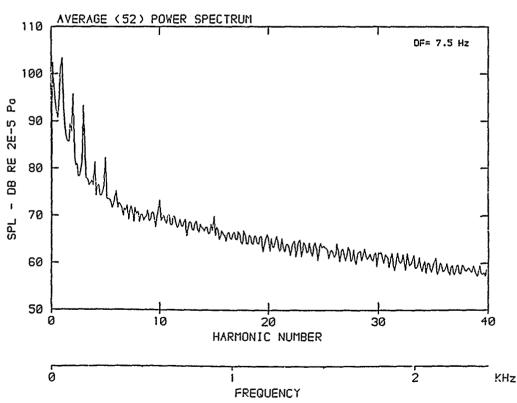
 β : 23.7° MH: .5838 n: 1800 rpm v/u: .269 ϕ : .0° T: 287.1 K



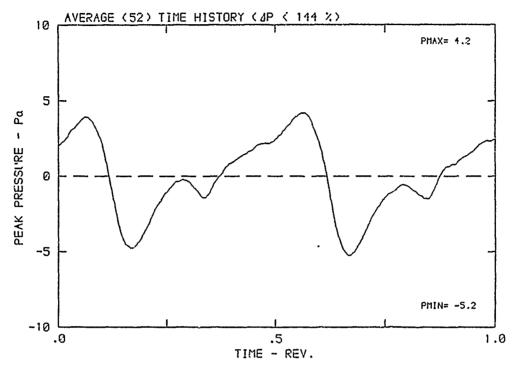


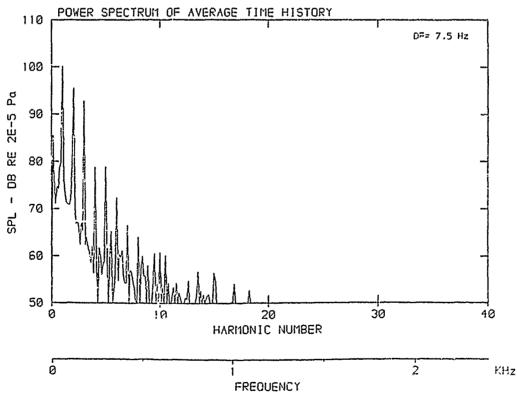
 $\beta\colon\,23.7^{\circ}\,$ MH: .5838 n: 1800 rpm v/u: .269 $\varphi\colon\,.0^{\circ}\,$ T: 287.1 K



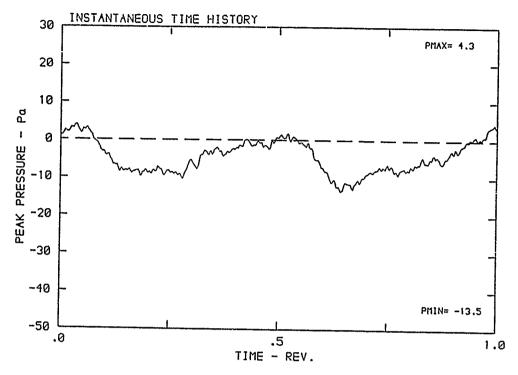


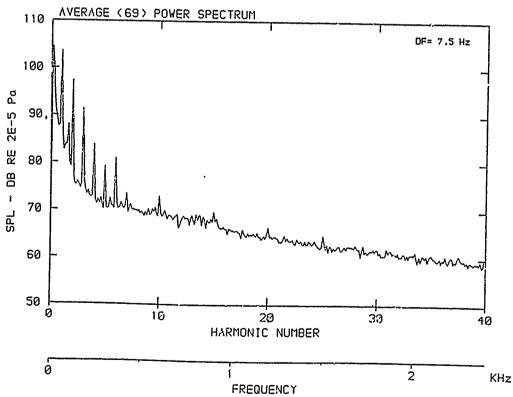
 β : 23.7° MH: .5838 n: 1800 rpm v/u: .269 ϕ : .0° T: 287.1 K



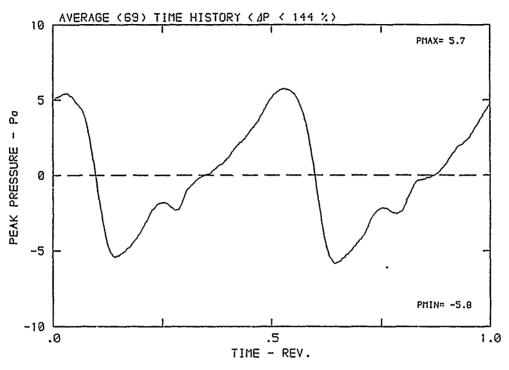


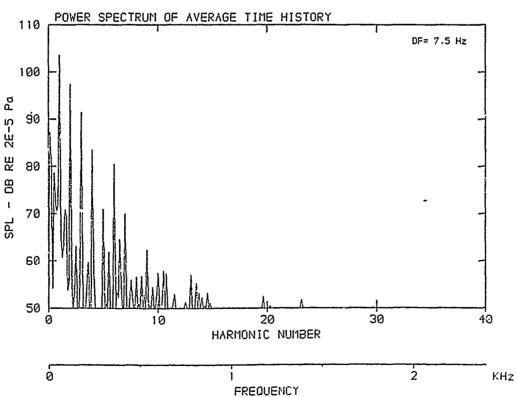
 β : 23.7° MH: .5838 n: 1800 rpm $\mbox{v/u}$: .269 $\mbox{$\phi$}$: .0° T: 287.1 K



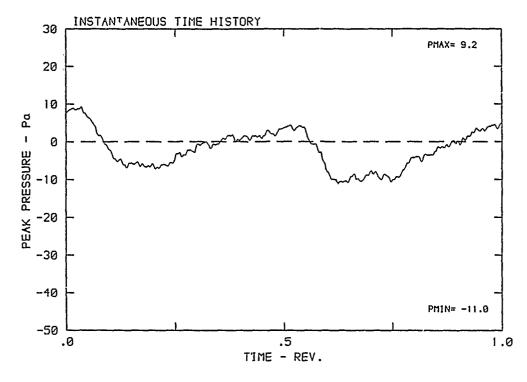


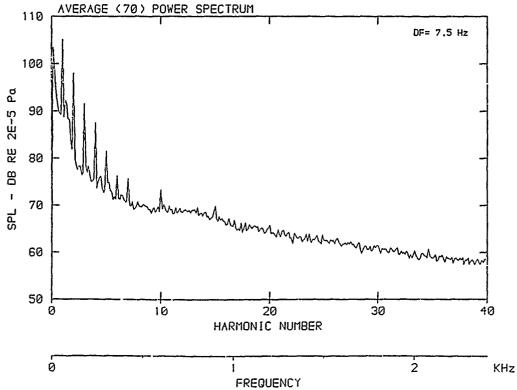
 $\beta\colon\,23.7^{\circ}\,$ MH: .5838 n: 1800 rpm v/u: .269 $\varphi\colon\,.0^{\circ}\,$ T: 287.1 K



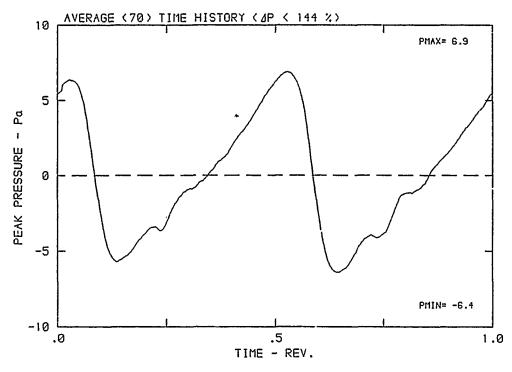


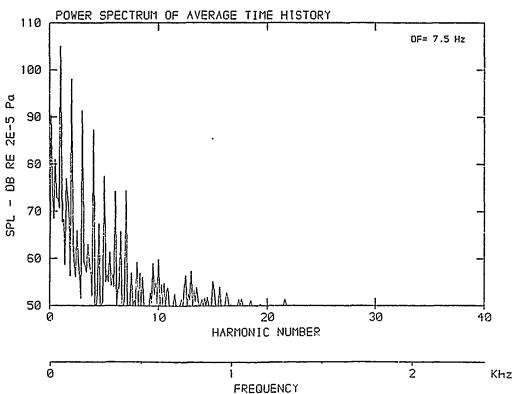
 β : 23.7° MH: .5838 n: 1800 rpm v/u: .269 ϕ : .0° T: 287.1 K



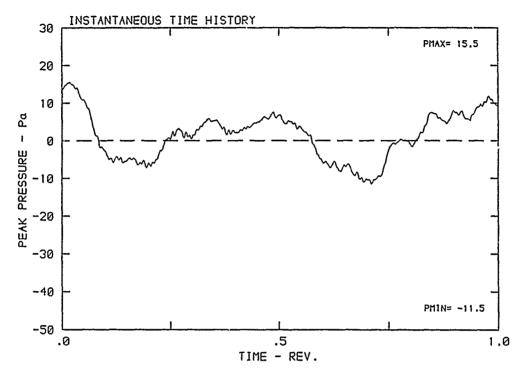


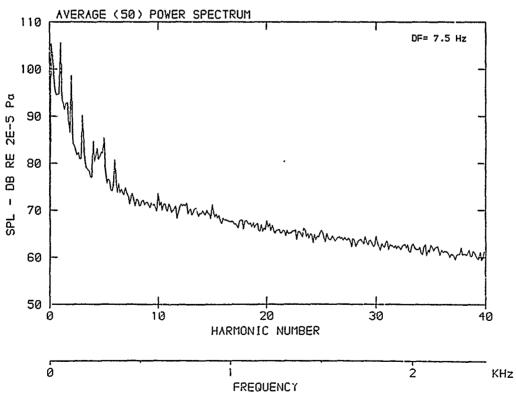
 β : 23.7° MH: .5838 n: 1800 rpm v/u: .269 ϕ : .0° T: 287.1 K



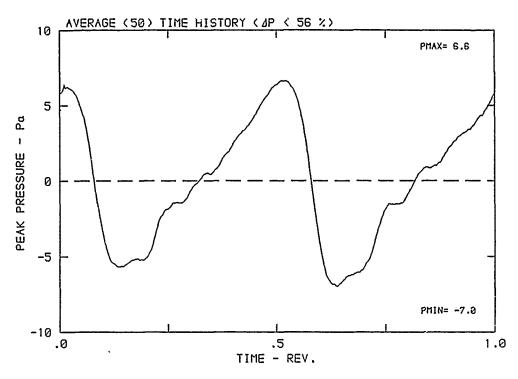


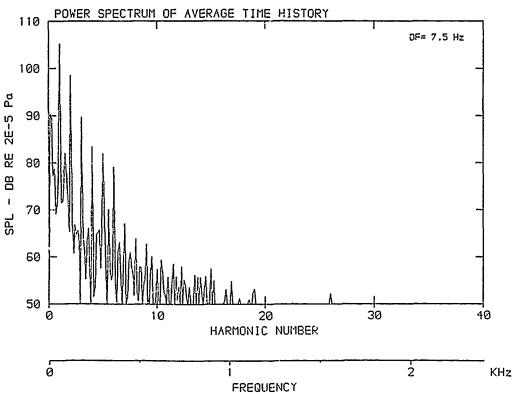
 β : 23.7° MH: .5838 n: 1800 rpm v/u: .269 ϕ : .0° T: 287.1 K



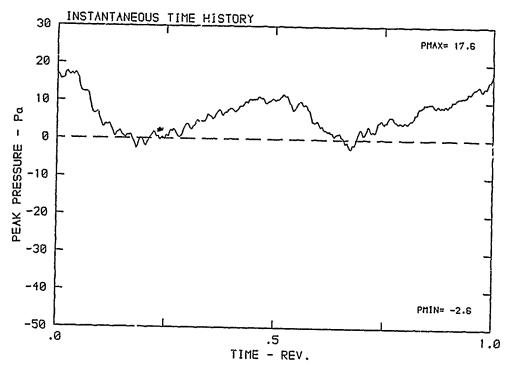


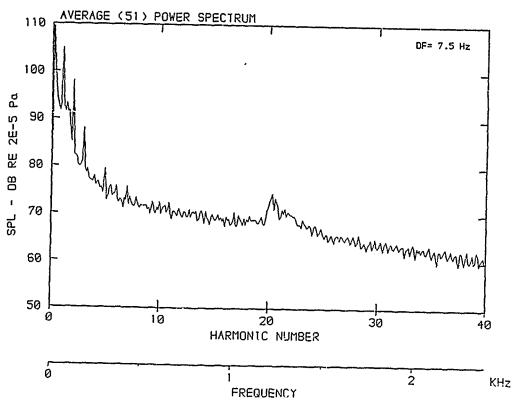
 β : 23.7° MH: .5838 n: 1800 rpm v/u: .269 ϕ : .0° T: 287.1 K



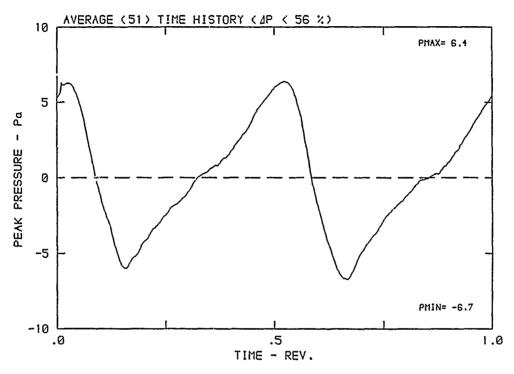


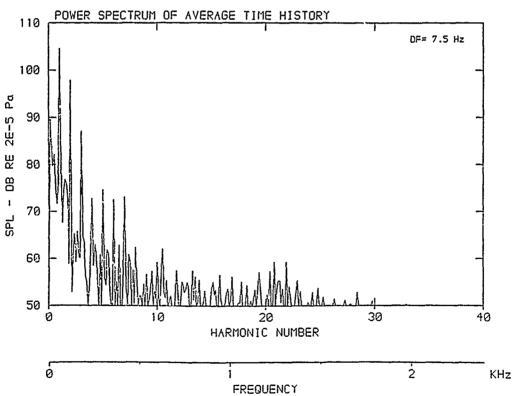
 β : 23.7° MH: .5838 n: 1800 rpm v/u: .269 ϕ : .0° T: 287.1 K



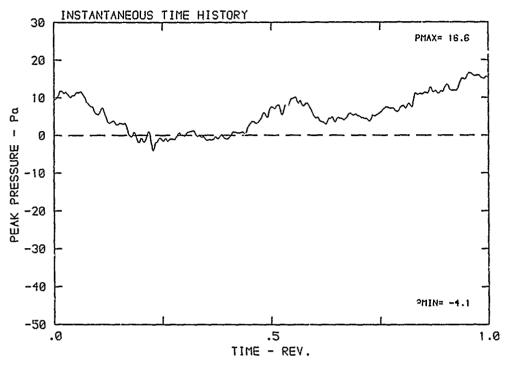


 $\beta\colon\,23.7^{\circ}$ MH: .5838 n: \800 rpm v/u: .269 $\varphi\colon\,.0^{\circ}$ T: 287.1 K

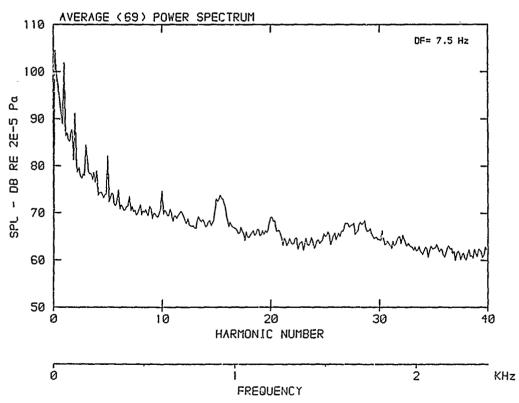




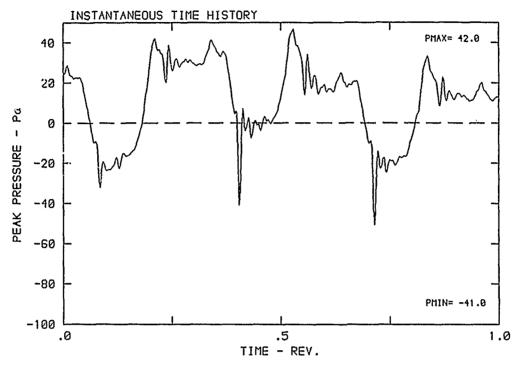
 $\beta\colon\thinspace 23.7^{o}$ MH: .5838 n: 1800 rpm v/u: .269 $\varphi\colon\:.0^{o}$ T: 287.1 K

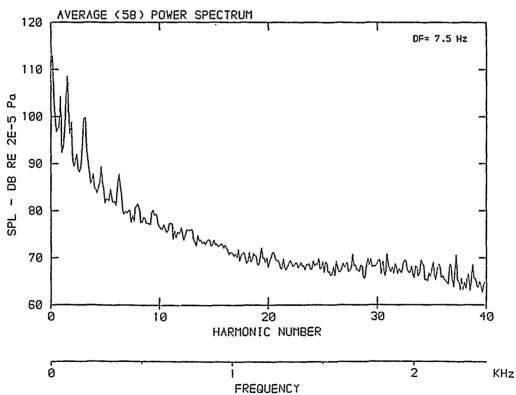


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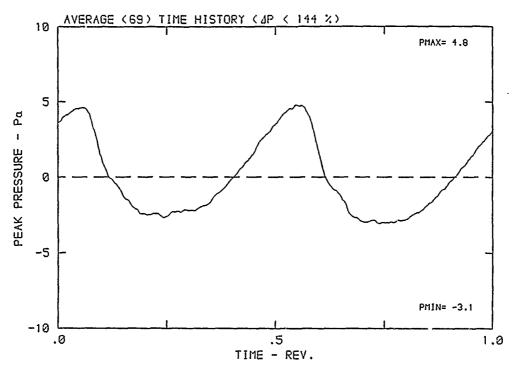


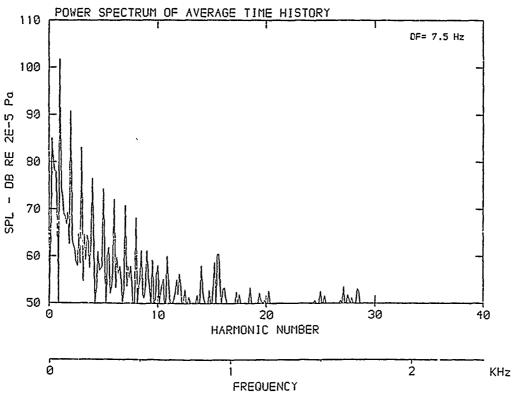
 β : 23.7° MH: .5838 n: 1800 rpm $\mbox{v/u}$: .269 $\mbox{$\phi$}$: .0° T: 287.1 K



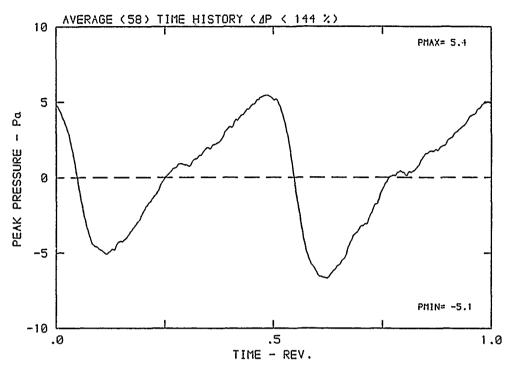


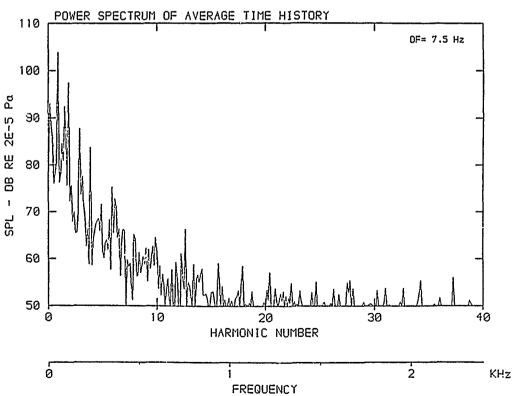
 $\beta\colon\,23.7^{\circ}\,$ MH: .5838 n: 1800 rpm v/u: .269 $\,\varphi\colon\,.0^{\circ}\,$ T: 287.1 K



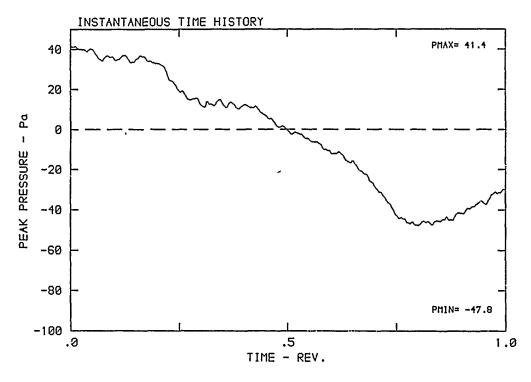


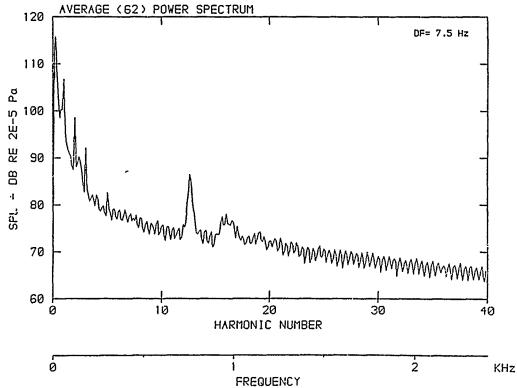
β: 23.7° MH: .5838 n: 1800 rpm ν/u: .269 φ: .0° T: 287.1 K



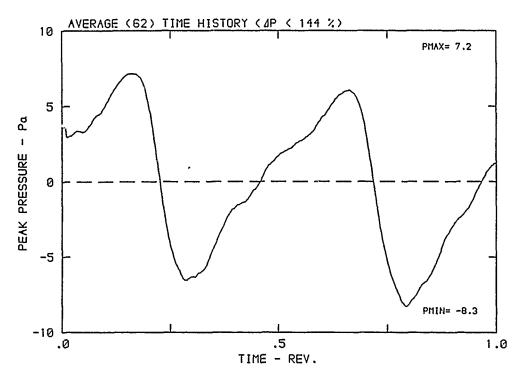


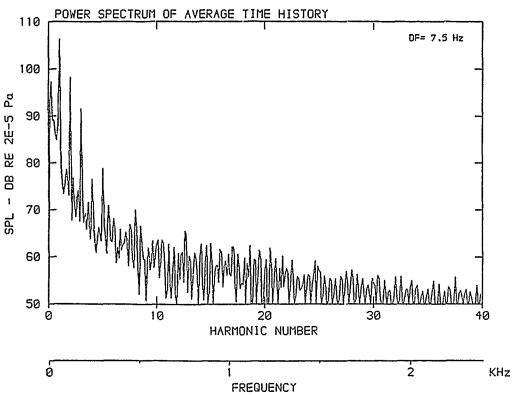
β: 23.7° MH: .5838 n: 1800 rpm ν/u: .269 φ: .0° T: 287.1 K





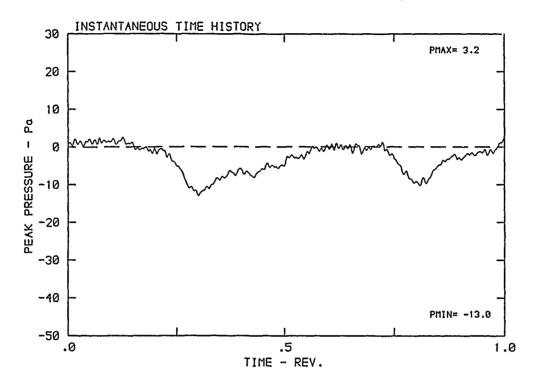
 β : 23.7° MH: .5838 n: 1800 rpm v/u: .269 ϕ : .0° T: 287.1 K

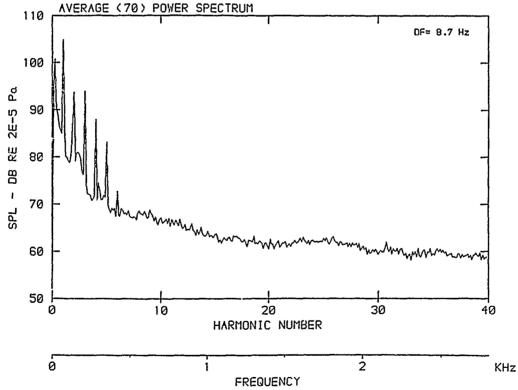




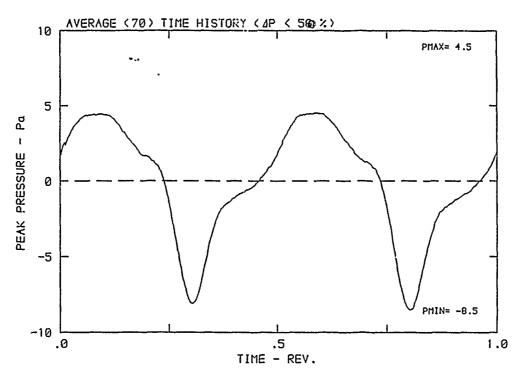
PARTICIPAL MENGRAPES BYZSZESZY (PRZZZZY) K

 $β: 23.7^{\circ}$ MH: .6753 n: 2100 rpm v/u: .229 $φ: .0^{\circ}$ T: 286.6 K

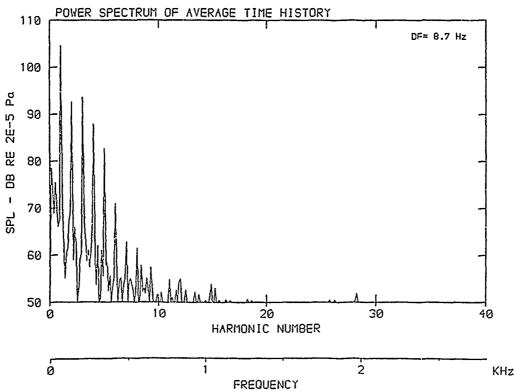




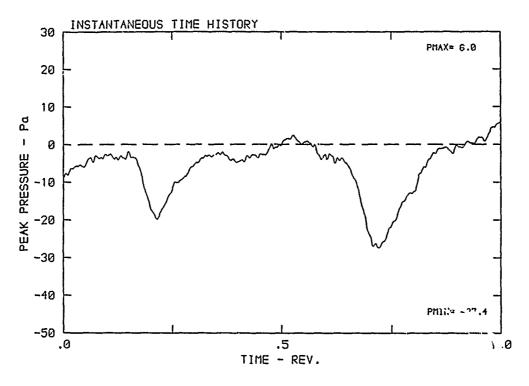
 $β: 23.7^{\circ}$ MH: .6753 n: 2100 rpm v/u: .229 φ: .0° T: 286.6 K



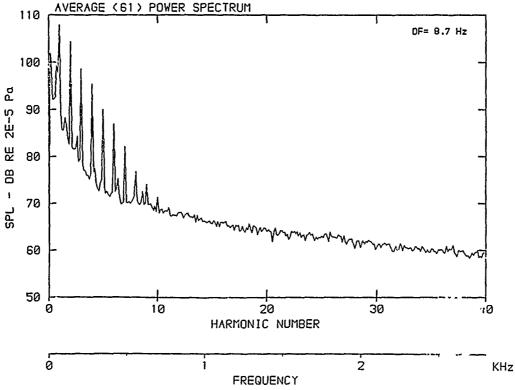
とこれないとは、単さしているからの間できないとなっている。



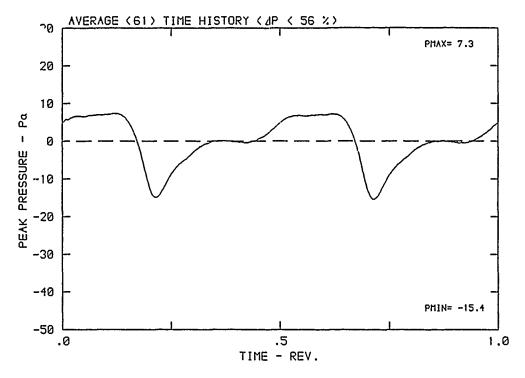
 β : 23.7° MH: .6753 n: 2100 rpm v/u: .229 ϕ : .0° T: 286.6 K



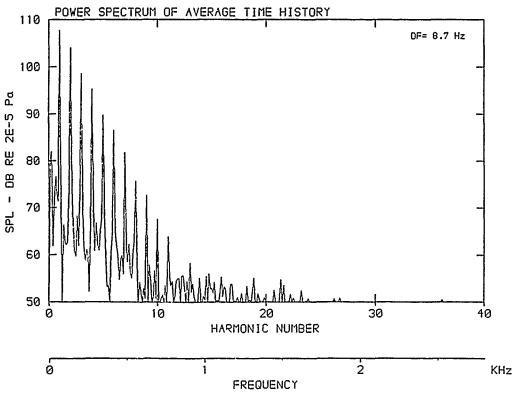
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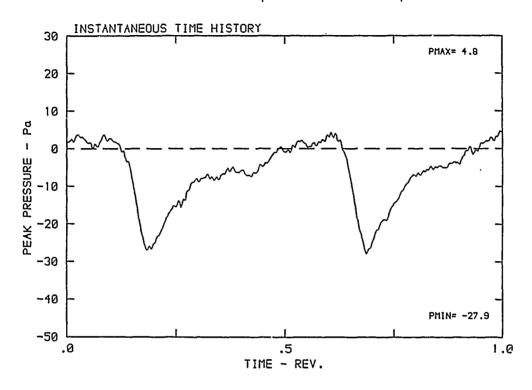
 β : 23.76 MH: .6753 n: 2100 rpm v/u: .229 ϕ : .00 T: 286.6 K

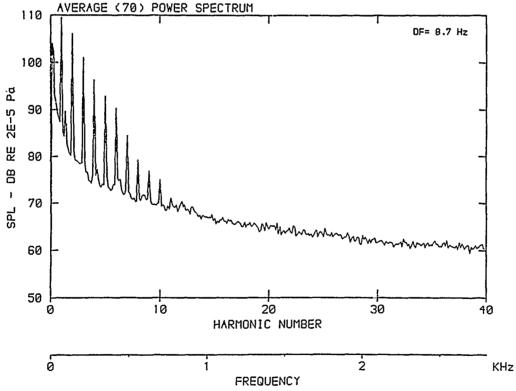


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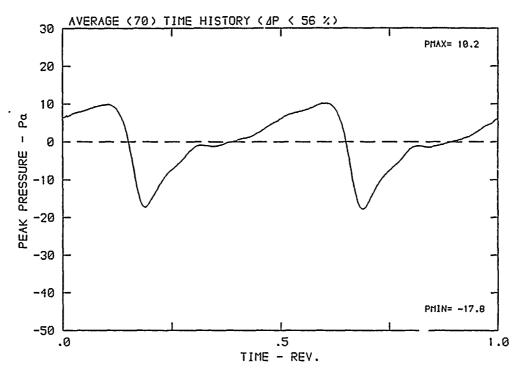


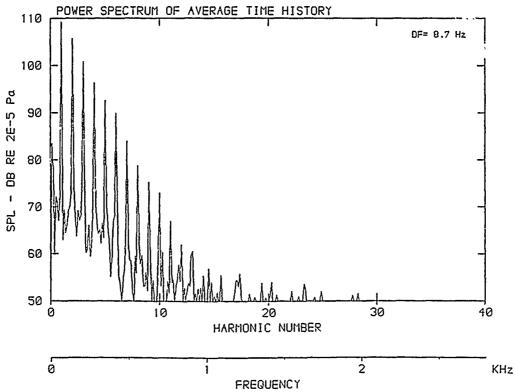
β: 23.7° MH: .6753 n: 2100 rpm v/u: .229 ψ: .0° T: 286.6 K



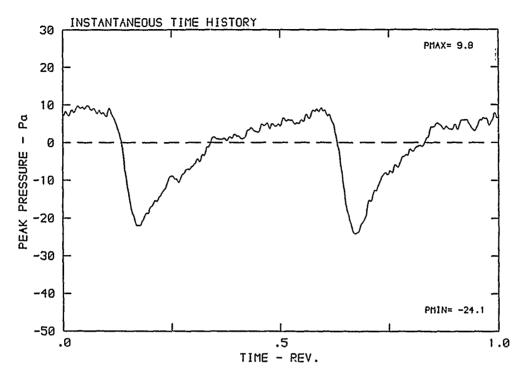


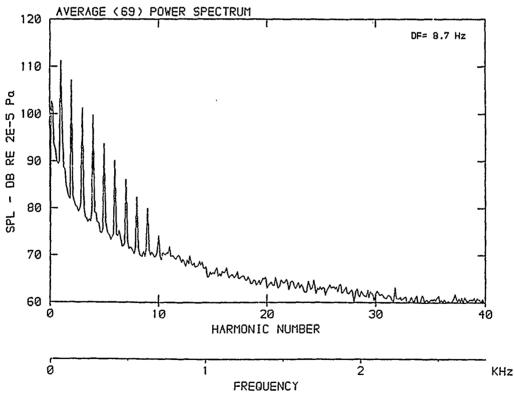
 $\beta\colon\,23.7^{\text{o}}\,$ MH: .6753 n: 2100 rpm v/u: .229 $\varphi\colon\,.0^{\text{o}}\,$ T: 286.6 K



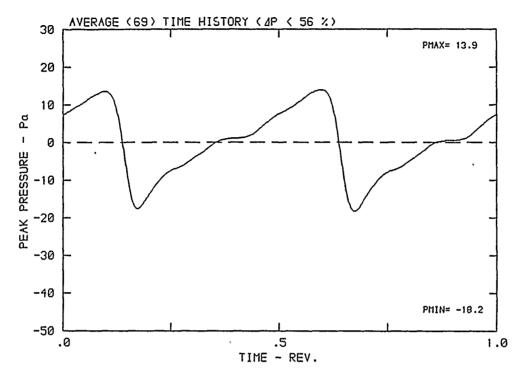


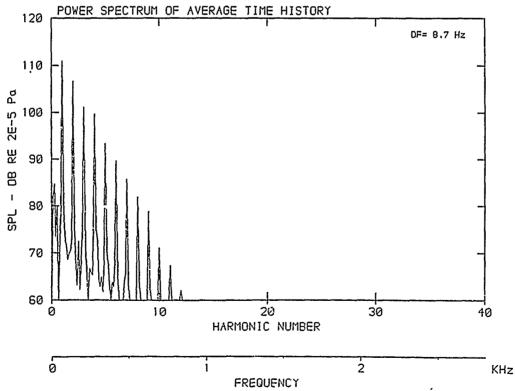
 $\beta\colon\,23.7^{\circ}\,$ MH: .6753 n: 2100 rpm v/u: .229 $\varphi\colon\,.0^{\circ}\,$ T: 286.6 K



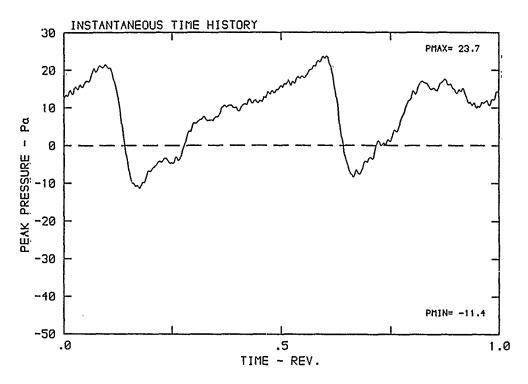


 β : 23.7° MH: .6753 n: 2100 rpm $\mbox{ v/u}$: .229 $\mbox{ }\phi$: .0° T: 286.6 K

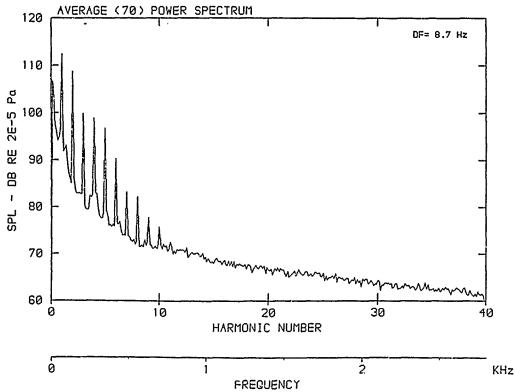




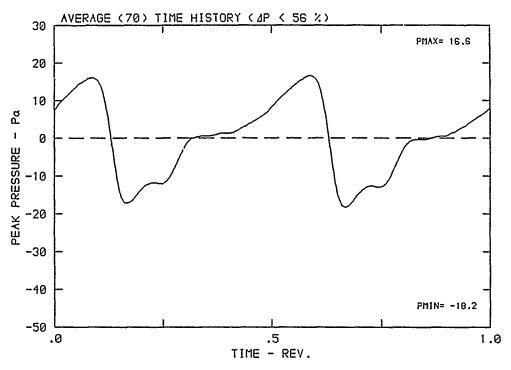
 β : 23.7° MH: .6753 n: 2100 rpm $\mbox{ v/u}$: .229 $\mbox{ }\phi$: .0° T: 286.6 K



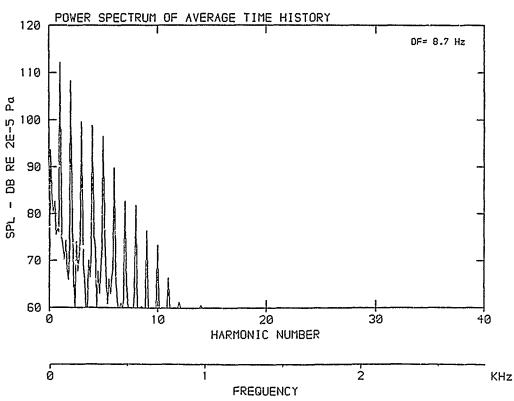
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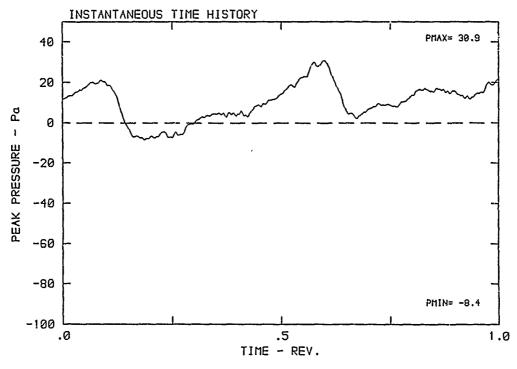
 β : 23.7° MH: .6753 n: 2100 rpm v/u: .229 ϕ : .0° T: 286.6 K

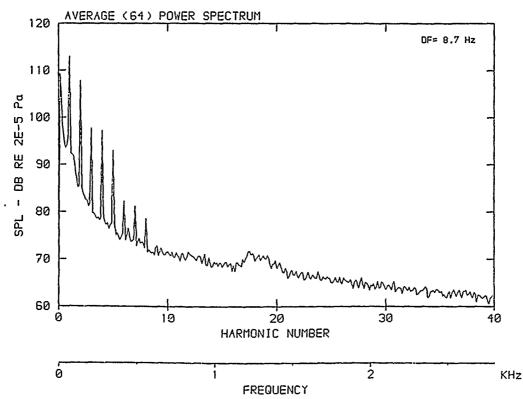


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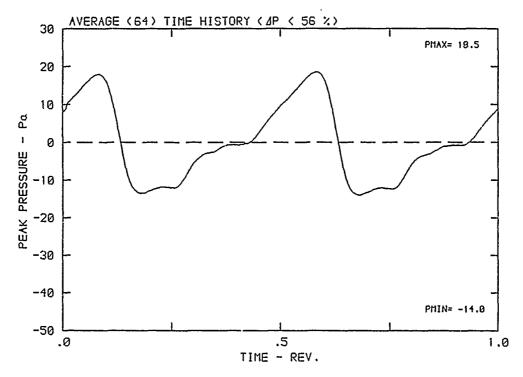


 $\beta\colon\,23.7^{0}\,$ MH: .6753 n: 2100 rpm v/u: .229 $\varphi\colon\,.0^{0}\,$ T: 286.6 K

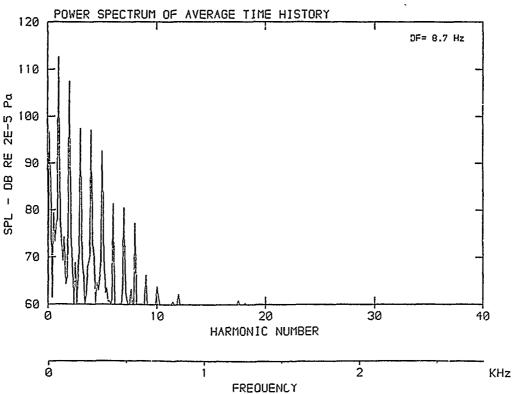




 β : 23.7° MH: .6753 n: 2100 rpm v/u: .229 ϕ : .0° T: 286.6 K

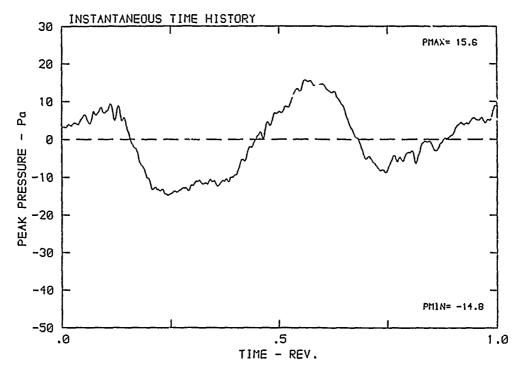


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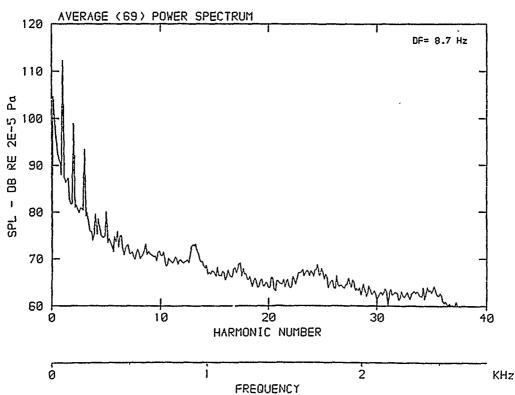


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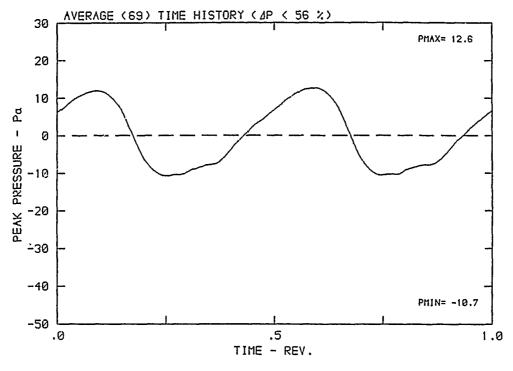
 β : 23.7° MH: .6753 n: 2100 rpm v/u: .229 ϕ · .9° T: 286.6 K



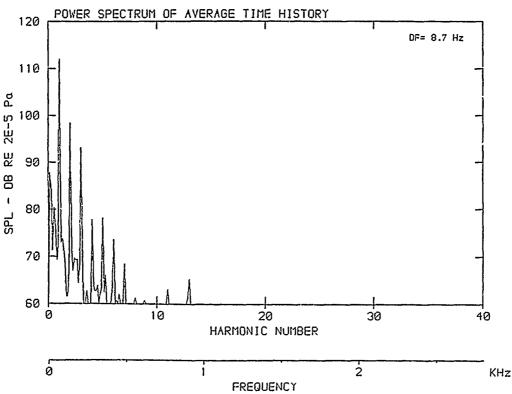
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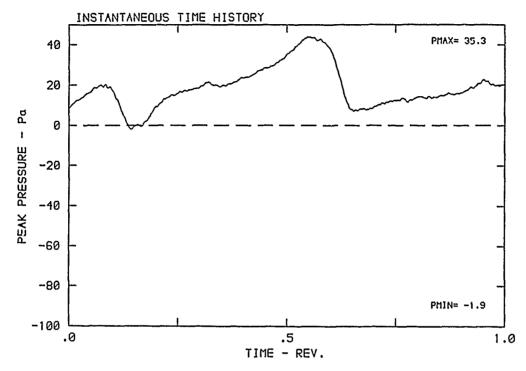
 β : 23.7° MH: .6753 n: 2100 rpm v/u: .229 ϕ : .0° T: 286.6 K

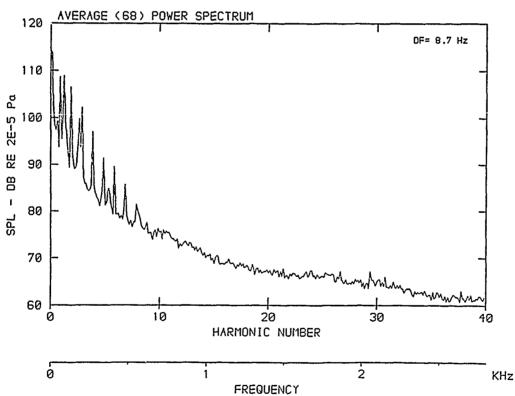


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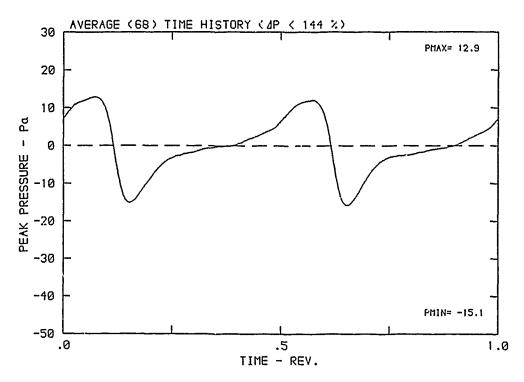


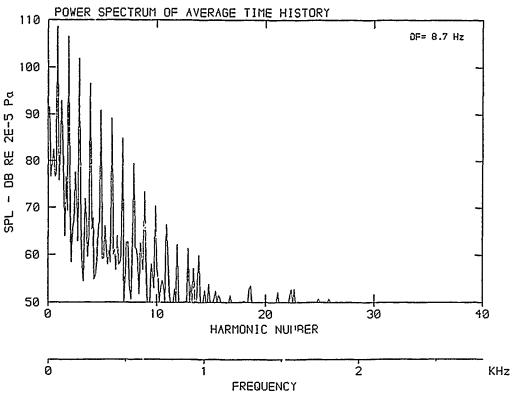
 β : 23.7° MH: .6753 n: 2100 rpm v/u: .229 ϕ : .0° T: 286.6 K





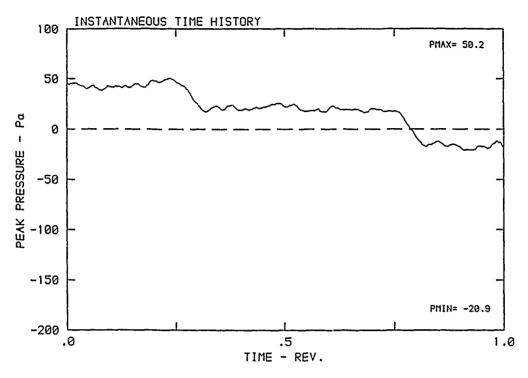
 β : 23.7° MH: .6753 n: 2100 rpm v/u: .229 ϕ : .0° T: 286.6 K

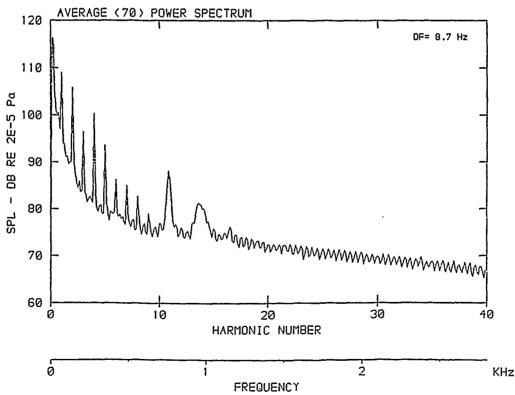




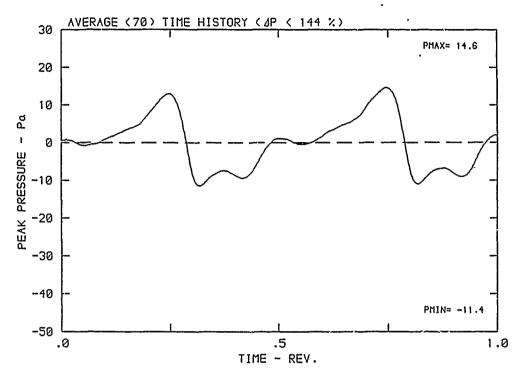
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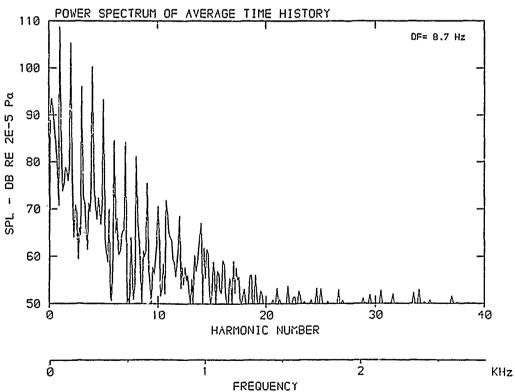
β: 23.7° MH: .6753 n: 2100 rpm v/u: .229 φ: .0° T: 286.6 K



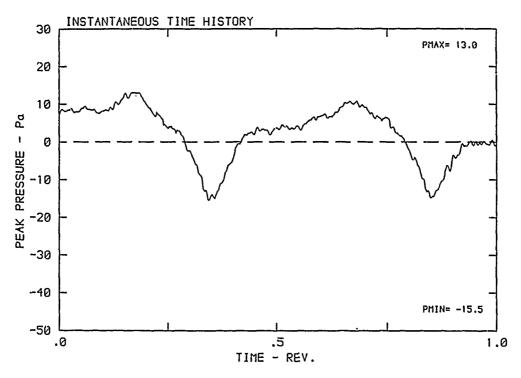


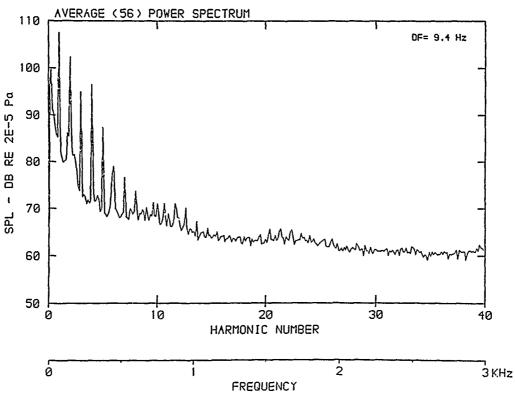
 β : 23.7° MH: .6753 n: 2100 rpm v/u: .229 ϕ : .0° T: 286.6 K



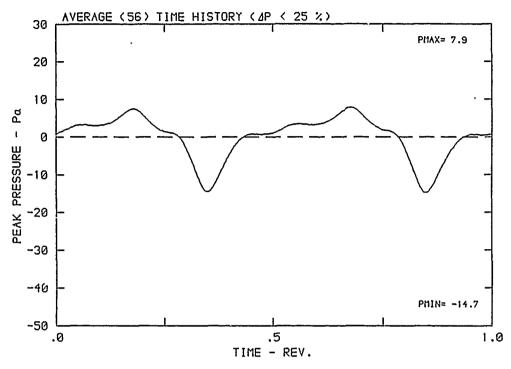


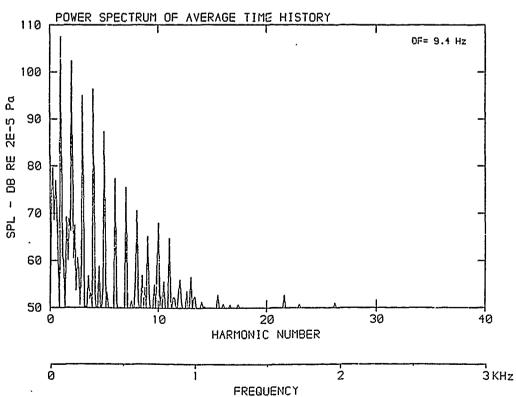
 $\beta\colon\,23.7^{\text{o}}\,$ MH: .7204 n: 2250 rpm v/u: .214 $\varphi\colon\,.0^{\text{o}}\,$ T: 287.3 K



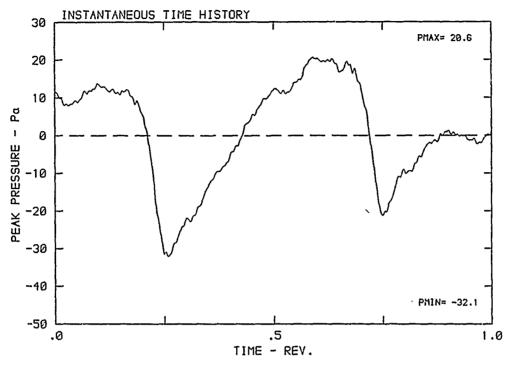


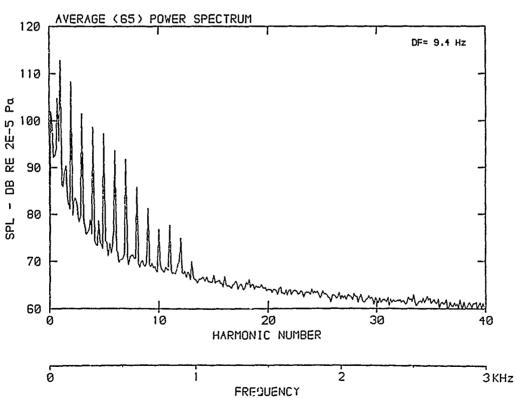
 β : 23.7° MH: .7204 n: 2250 rpm v/u: .214 ϕ : .0° T: 287.3 K



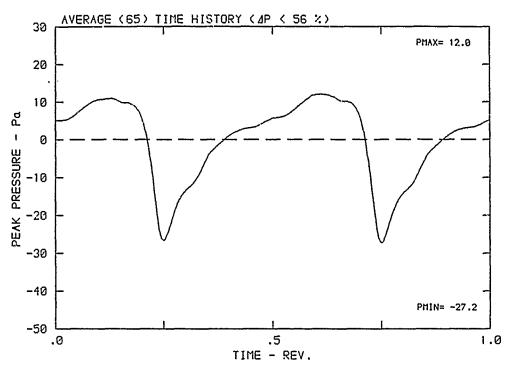


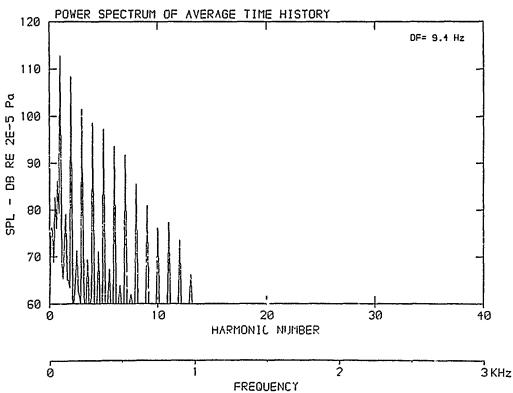
 β : 23.7° MH: .7204 n: 2250 rpm v/u: .214 ϕ : .0° T: 287.3 K



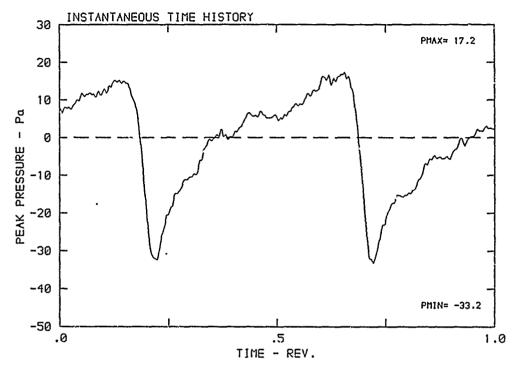
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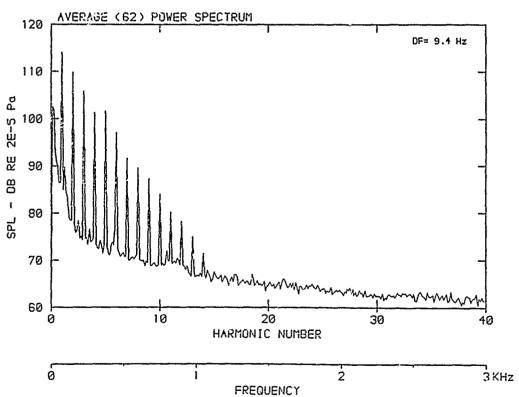
 β : 23.7° MH: .7204 n: 2250 rpm v/u: .214 ϕ : .0° T: 287.3 K



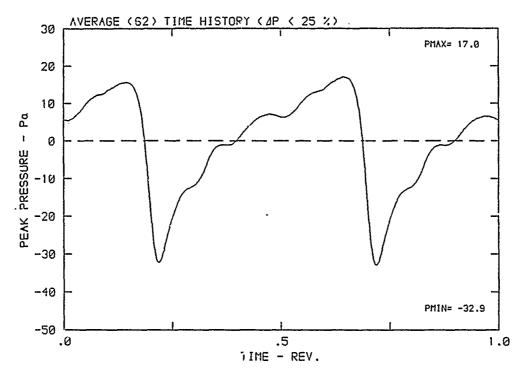


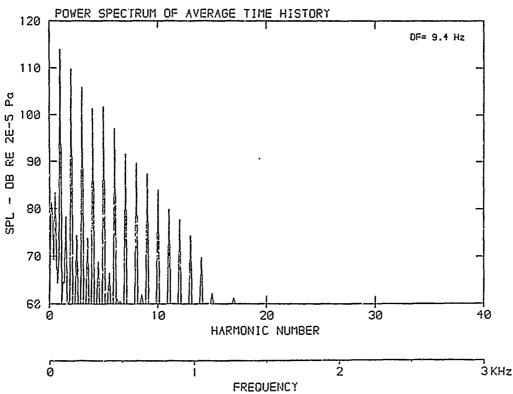
 $\beta\colon\,23.7^{o}\,$ MH: .7204 n: 2250 rpm v/u: .214 $\dot{\phi}\colon\,.0^{o}\,$ T: 287.3 K



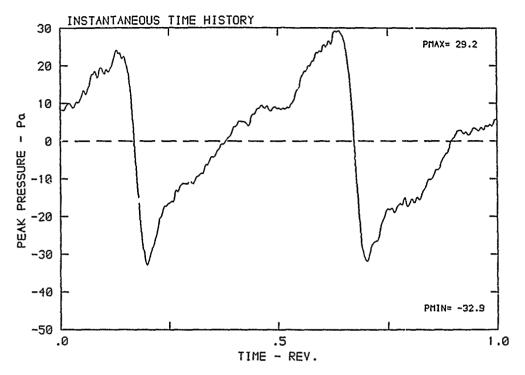


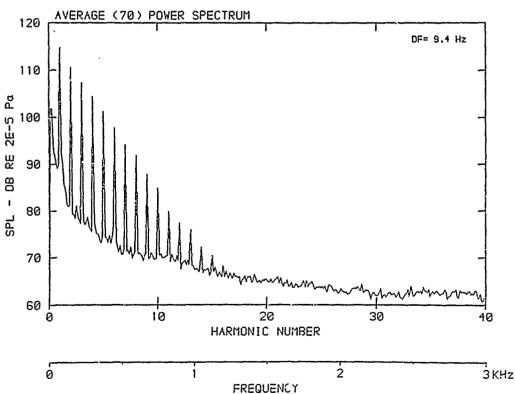
 β : 23.7° MH: .7204 n: 2250 rpm v/u: .214 ϕ : .0° T: 287.3 K



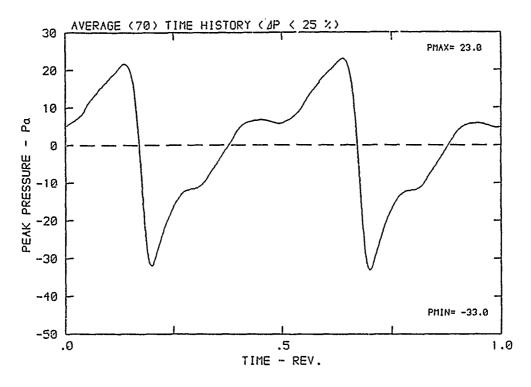


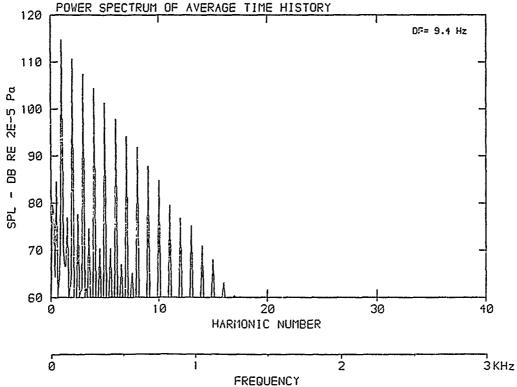
β: 23.7° MH: .7204 n: 2250 rpm ν/u: .214 φ: .0° T: 287.3 K



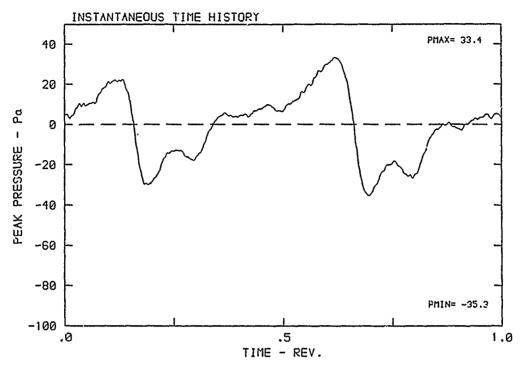


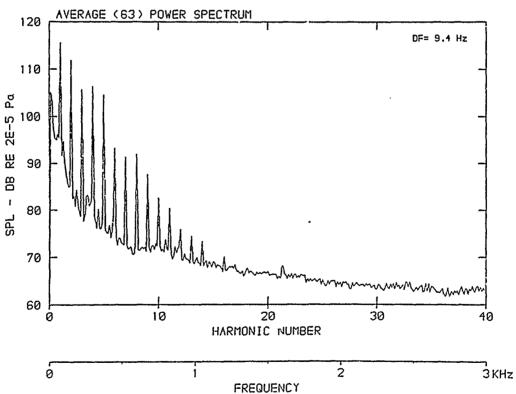
 β : 23.7° MH: .7204 n: 2250 rpm v/u: .214 ϕ : .0° T: 287.3 K



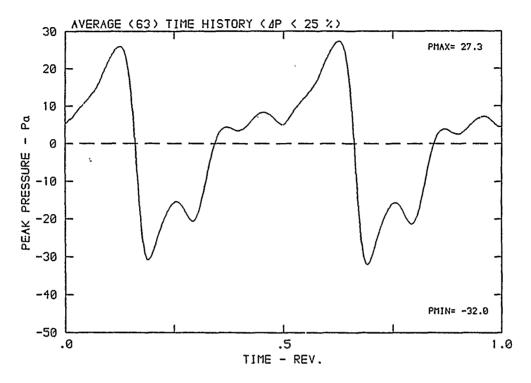


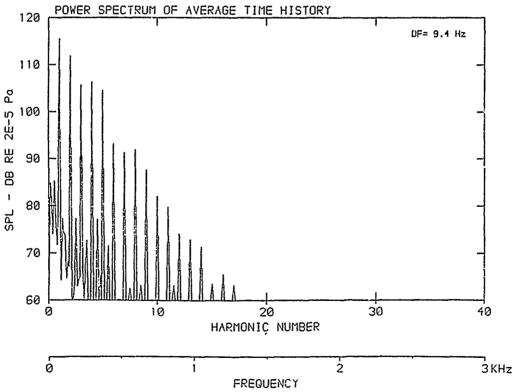
β: 23.7° MH: .7204 n: 2250 rpm v/u: .214 φ: .0° T: 287.3 K



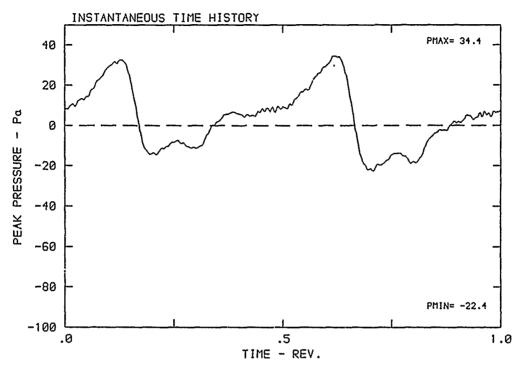


 β : 23.7° MH: .7204 n: 2250 rpm v/u: .214 ϕ : .0° T: 287.3 K

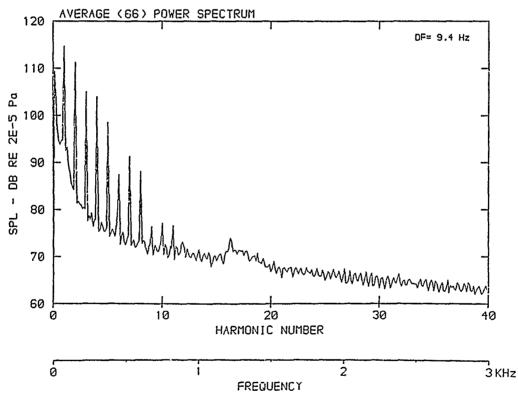




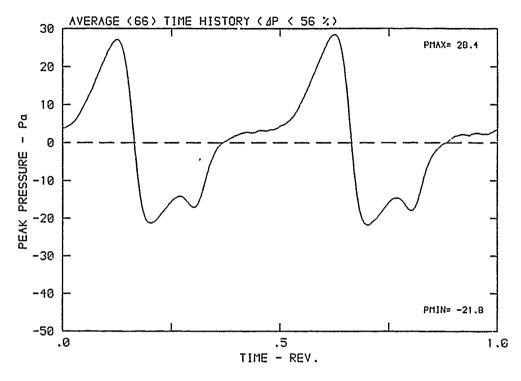
 β : 23.7° MH: .7204 n: 2250 rpm v/u: .214 ϕ : .0° T: 287.3 K

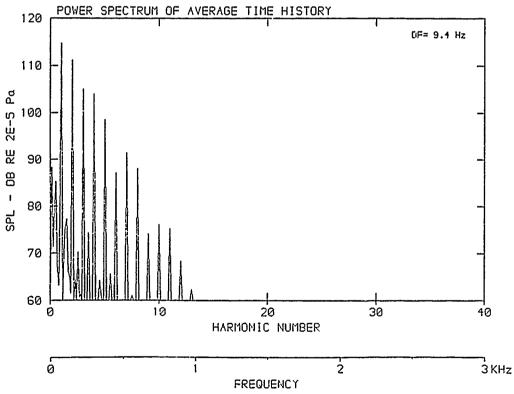


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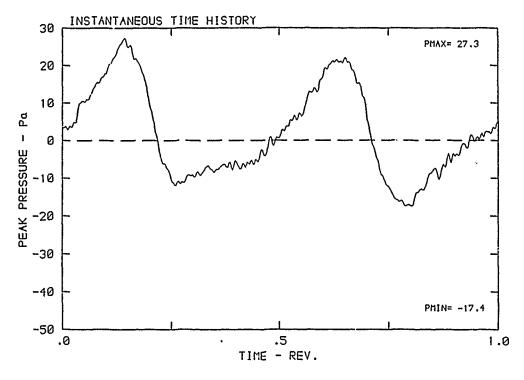


 $β: 23.7^{\circ}$ MH: .7204 n: 2250 rpm v/u: .214 φ: .0° T: 287.3 K

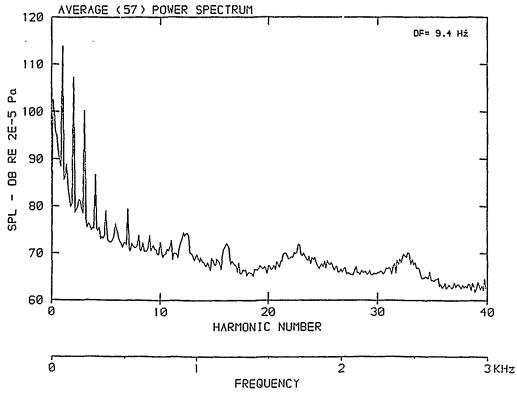




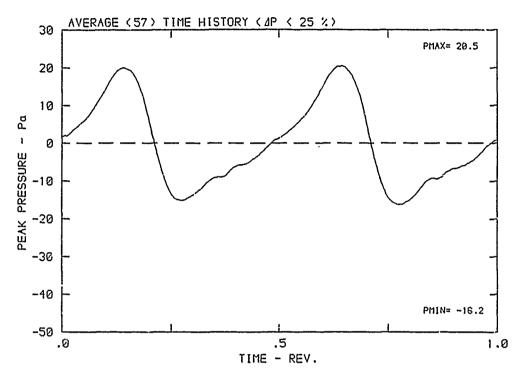
 β : 23.7° MH: .7204 n: 2250 rpm v/u: .214 ϕ : .0° T: 287.3 K

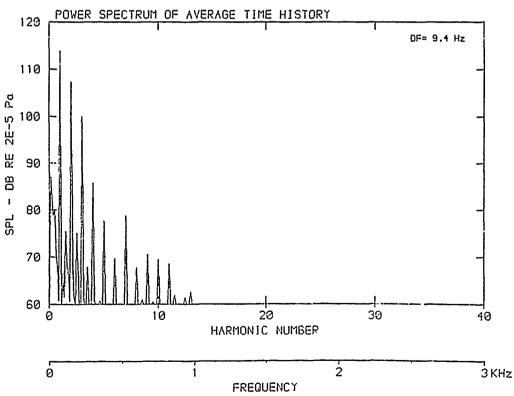


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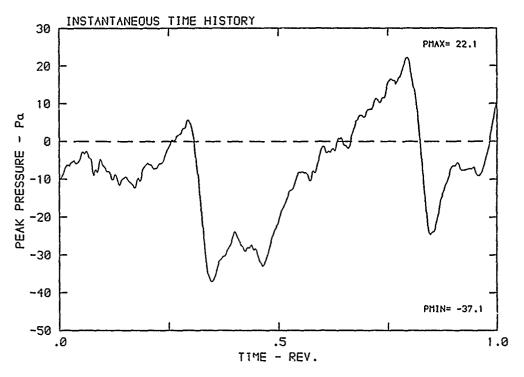


 $β: 23.7^{\circ}$ MH: .7204 n: 2250 rpm v/u: .214 $φ: .0^{\circ}$ T: 287.3 K

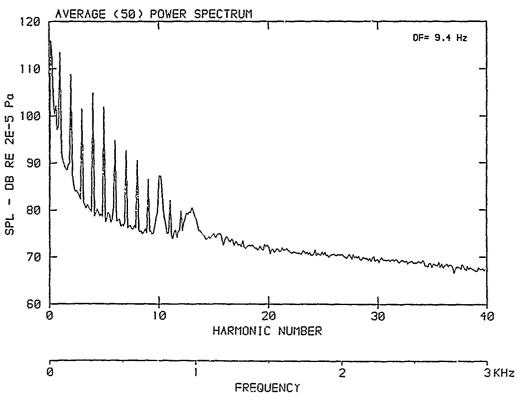




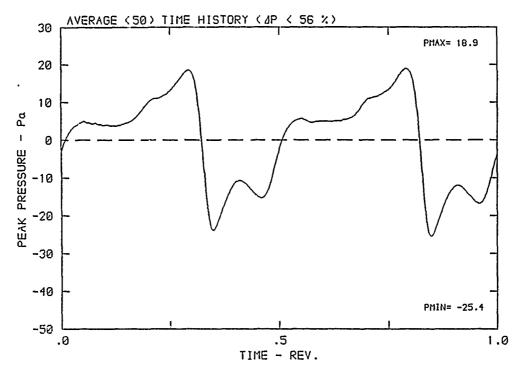
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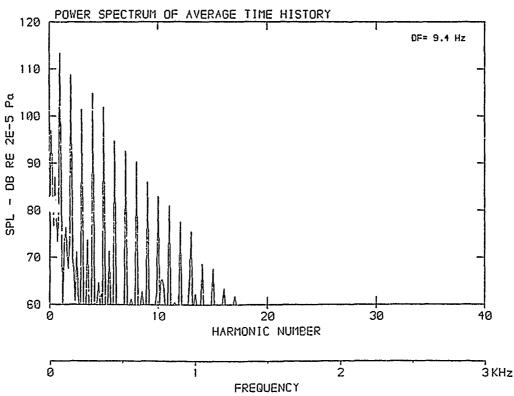


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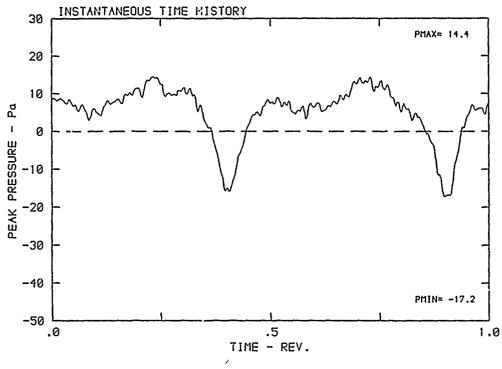


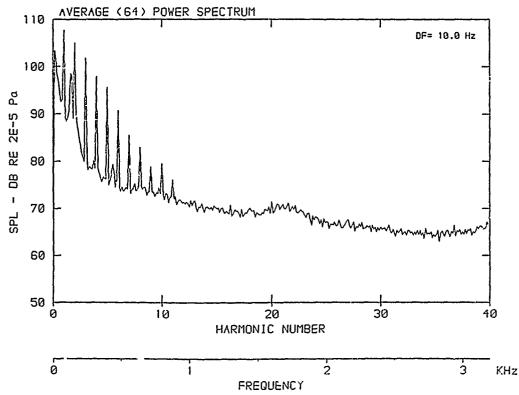
 β : 23.7° MH: .7204 n: 2250 rpm v/u: .214 ϕ : .0° T: 287.3 K



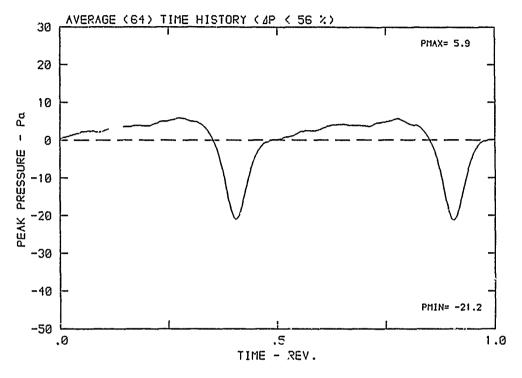


THE ENDOCROPS OF THE PROPERTY
 $\beta\colon\,23.7^{\circ}\,$ MH: .7775 n: 2400 rpm v/u: .264 $\varphi\colon\,.0^{\circ}\,$ T: 287.0 K

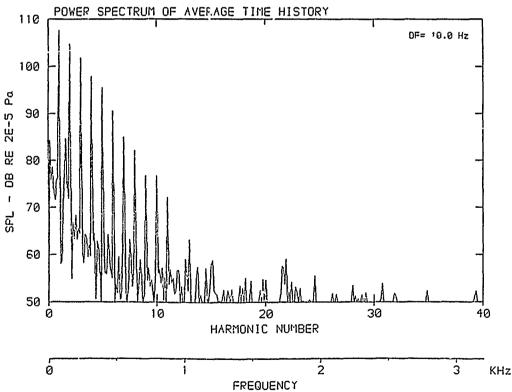




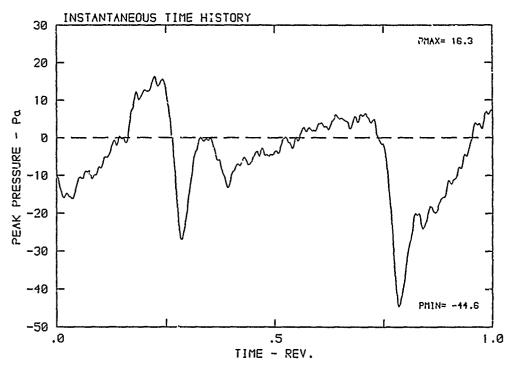
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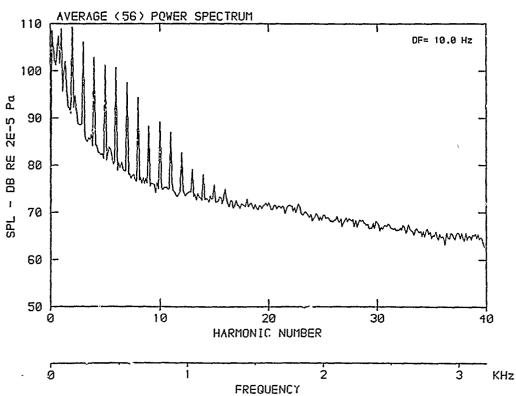


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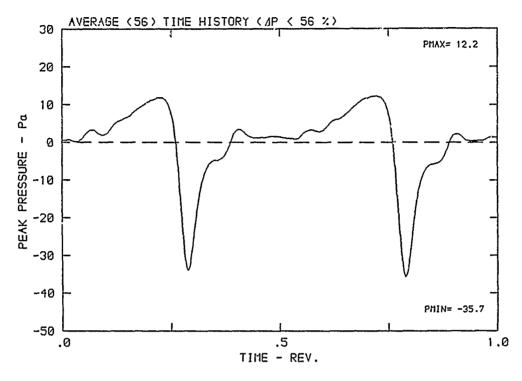


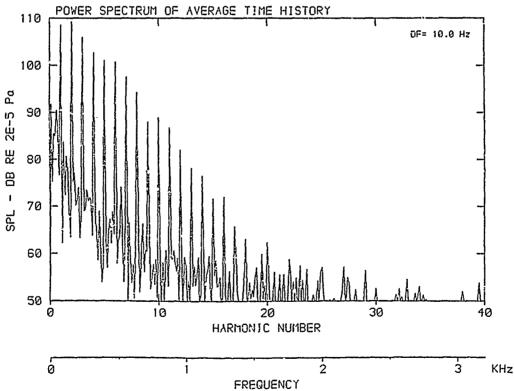
 β : 23.7° MH: .7775 n: 2400 rpm v/u: .264 ϕ : .0° T: 287.0 K



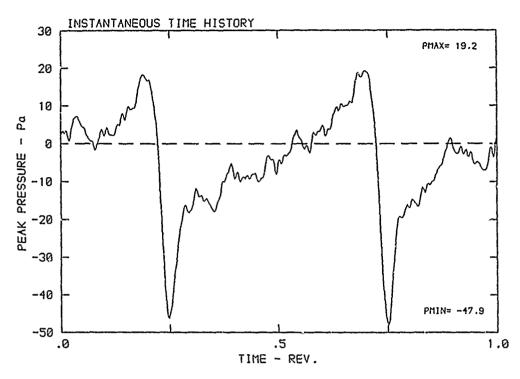


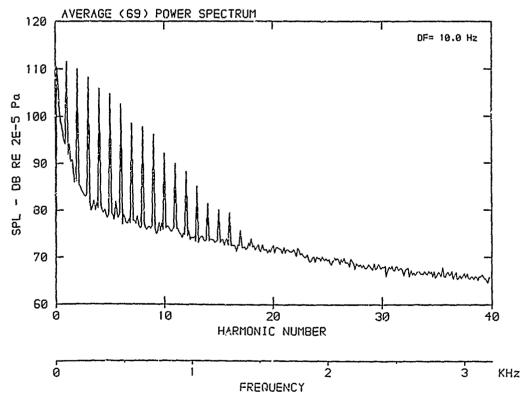
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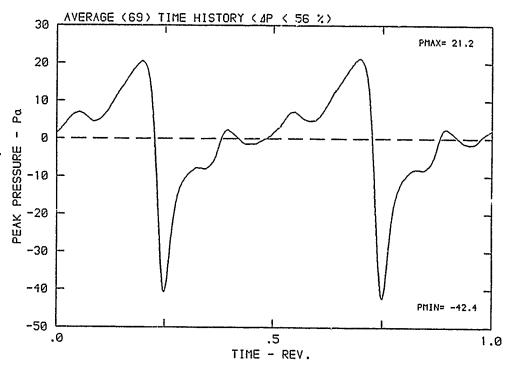


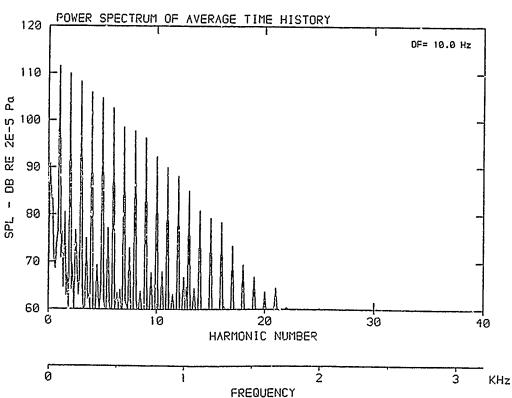
 $\beta\colon\,23.7^{\circ}\,$ MH: .7775 n: 2400 rpm v/u: .264 $\varphi\colon\,.0^{\circ}\,$ T: 287.0 K





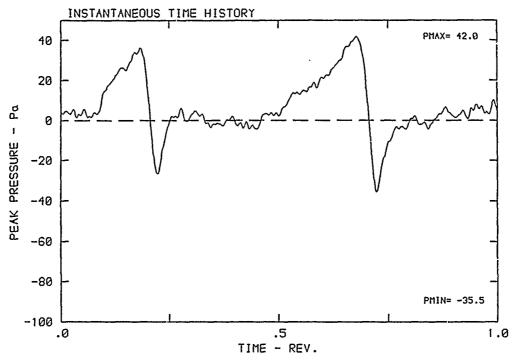
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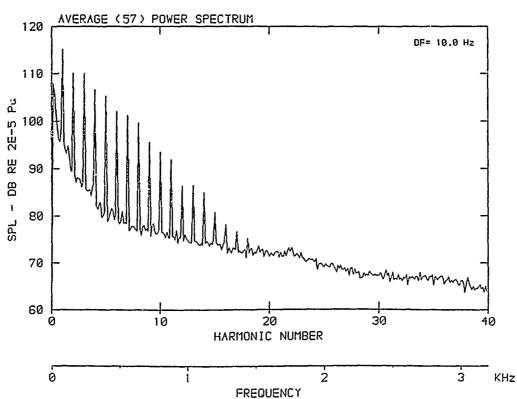




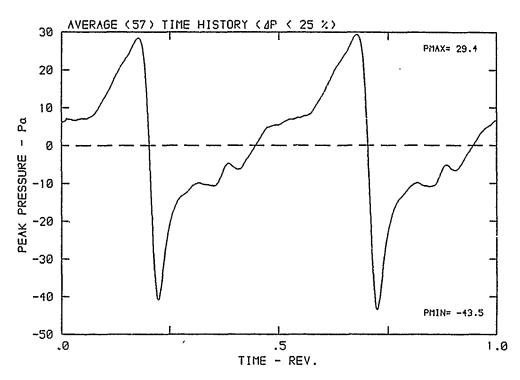
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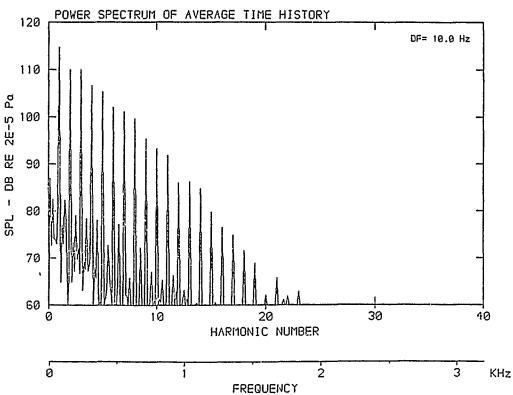
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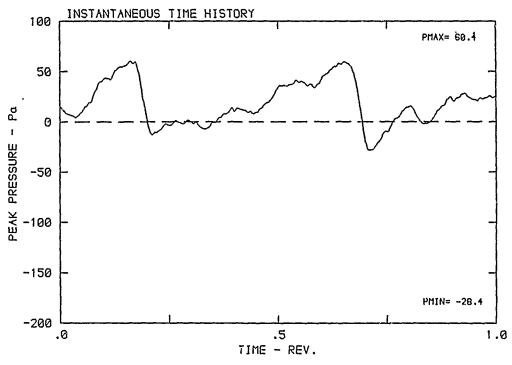


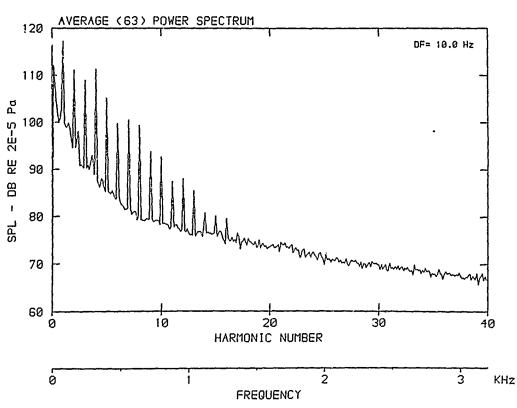
 β : 23.7° MH: .7775 n: 2400 rpm v/u: .264 ϕ : .0° T: 287.0 K



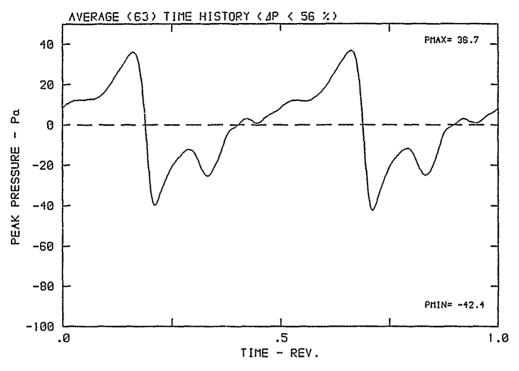


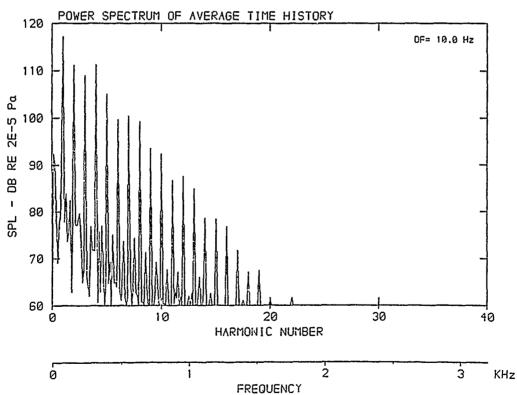
 $\beta\colon\,23.7^{o}\,$ MH: .7775 n: 2400 rpm v/u: .264 $\,\varphi\colon\,.0^{o}\,$ T: 287.0 K



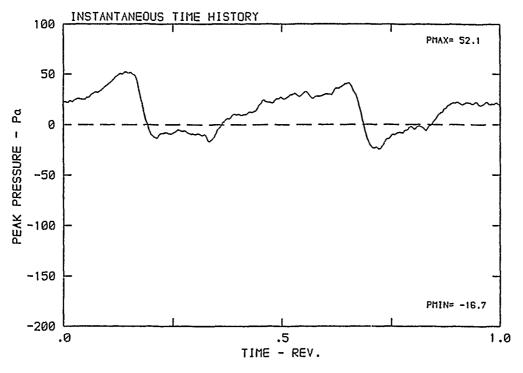


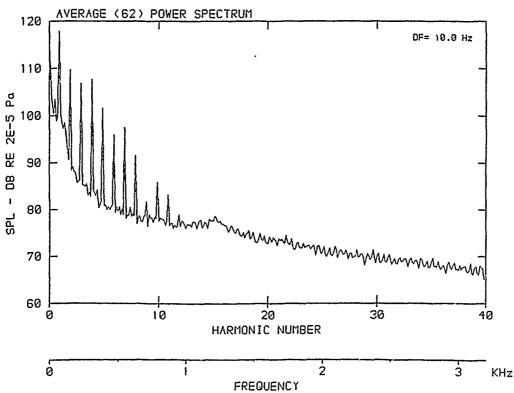
 $\beta\colon\,23.7^{o}\,$ MH: .7775 n; 2400 rpm v/u: .264 $\varphi\colon\,.0^{o}\,$ T: 287.0 K



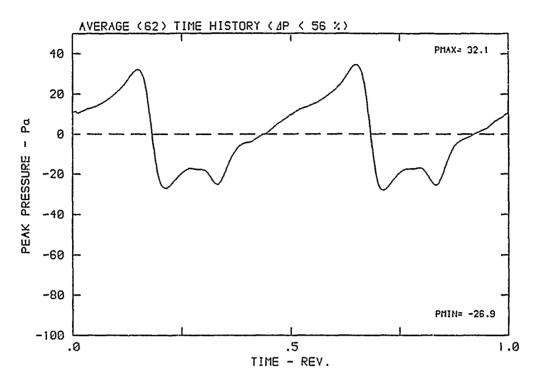


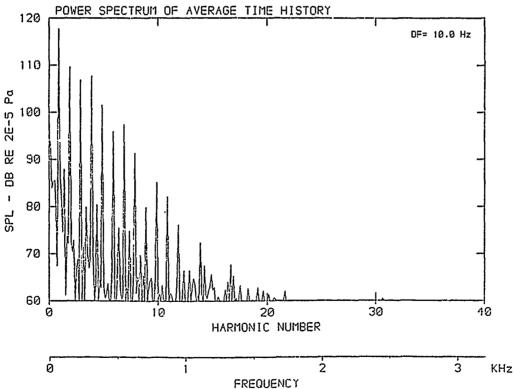
β: 23.7° MH: .7775 n: 2400 rpm ν/u: .264 φ: .0° T: 237.0 K

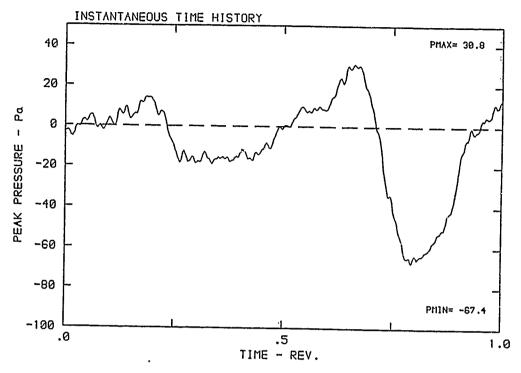
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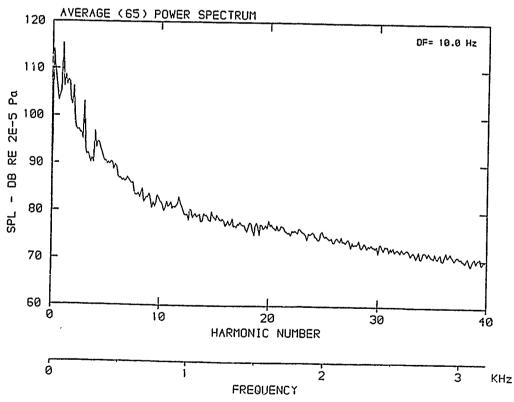


 $\beta\colon\,23.7^{\circ}\,$ MH: .7775 n: 2400 rpm v/u: .264 $\varphi\colon\,.0^{\circ}\,$ T: 287.0 K

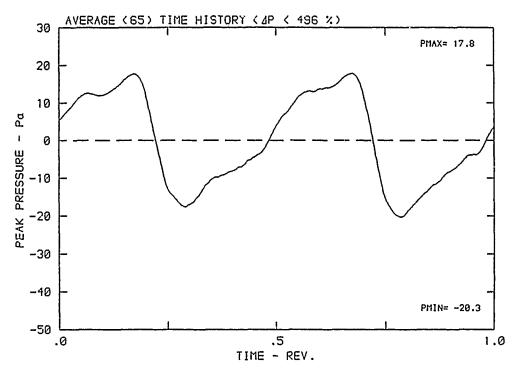


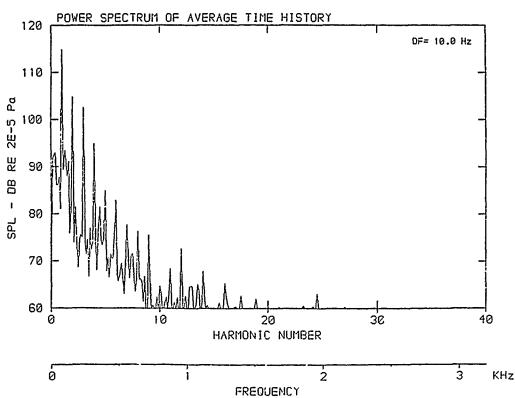




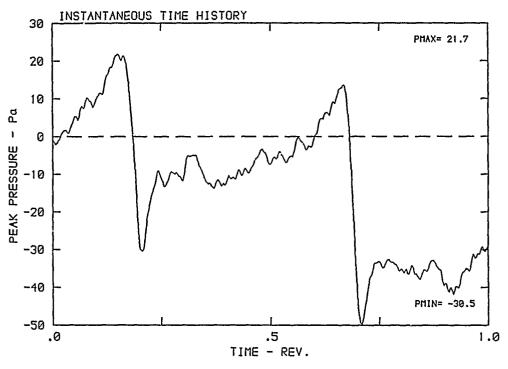


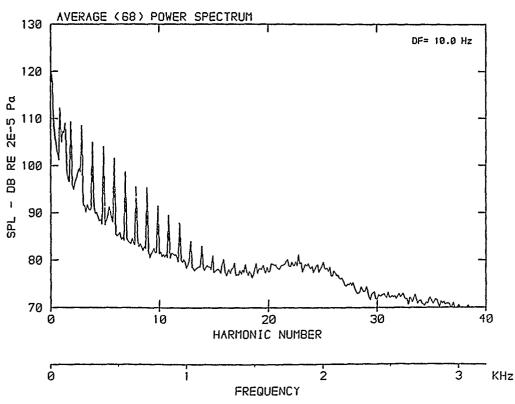
 $β: 23.7^{\circ}$ MH: .7775 n: 2400 rpm v/u: .264 φ: .0° T: 287.0 K



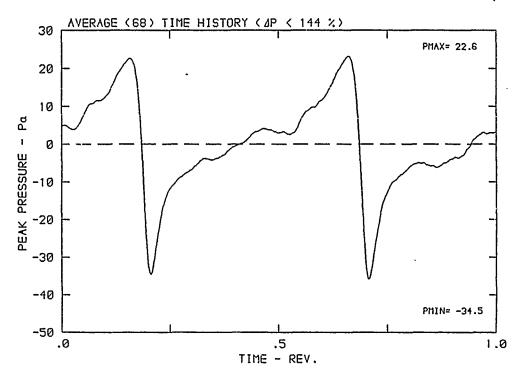


 $\beta\colon\,23.7^{o}$ MH: .7775 n: 2400 rpm v/u: .264 $\varphi\colon\,.0^{o}$ T: 287.0 K

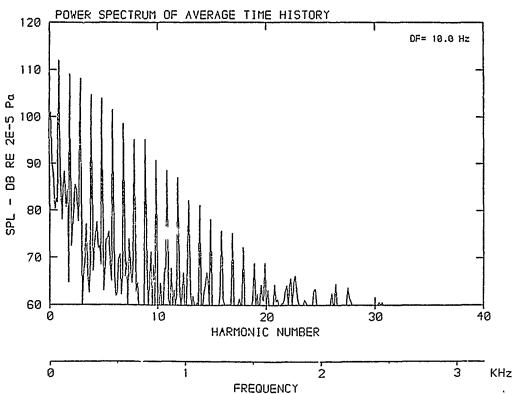




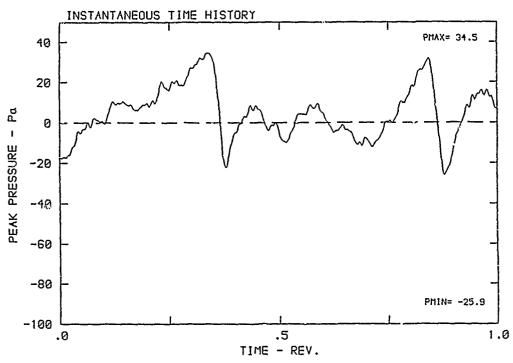
 $\beta\colon\,23.7^{\circ}\,$ MH: .7775 n: 2400 rpm v/u: .264 $\varphi\colon\,.0^{\circ}\,$ T: 287.0 K

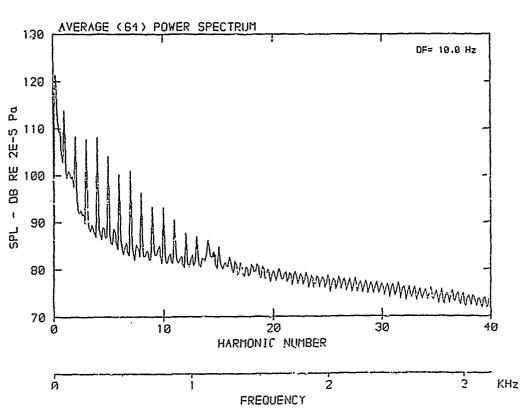


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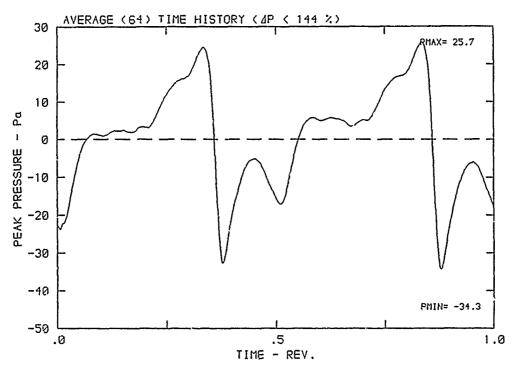


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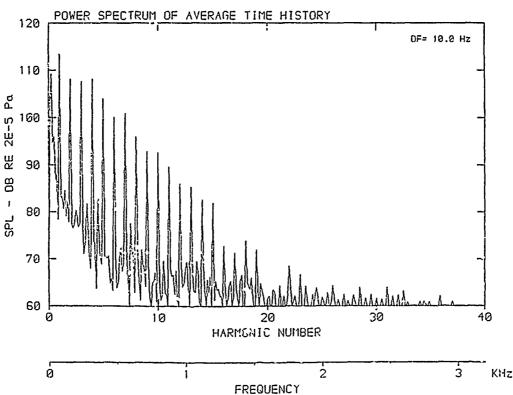




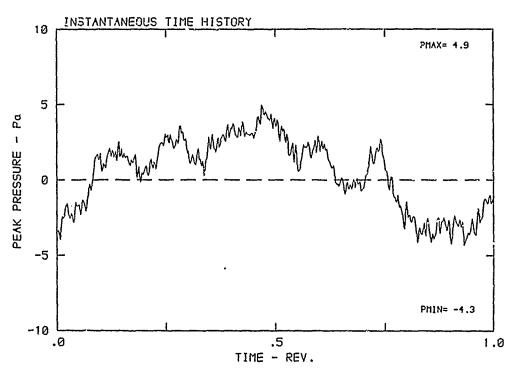
 β : 23.7° MH: .7775 n: 2400 rpm v/u: .264 ϕ : .0° T: 287.0 K

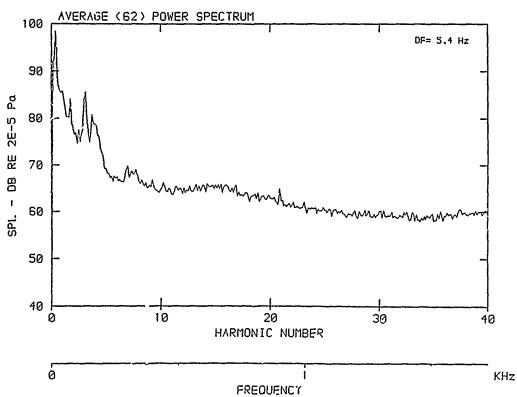


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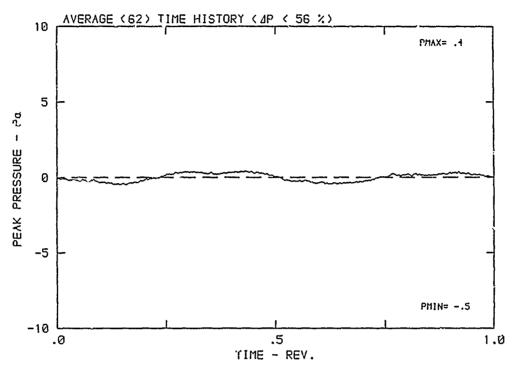


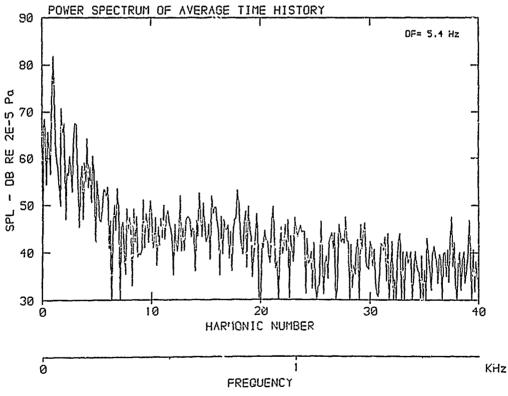
 $\beta\colon\,23.7^{\circ}\,$ MH: .4321 n: 1294 rpm v/u: .370 $\varphi\colon\,.0^{\circ}\,$ T: 287.2 K



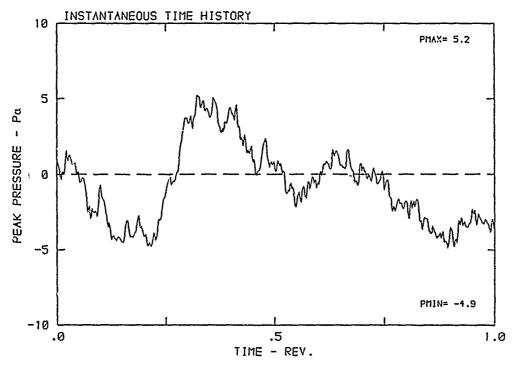


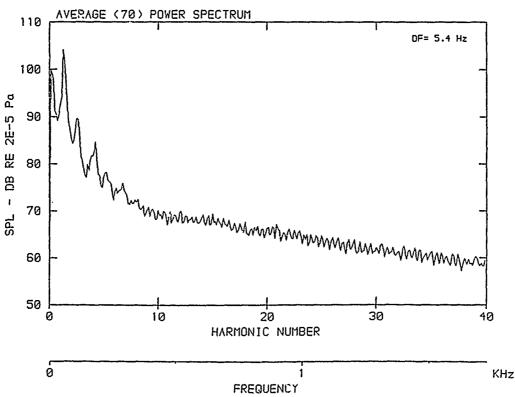
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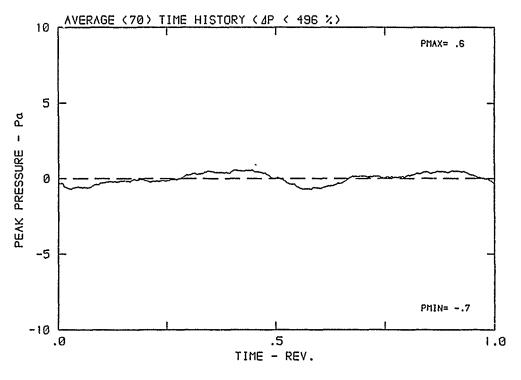


 β : 23.7° MH: .4321 n: 1294 rpm v/u: .370 ϕ : .0° T: 287.2 K

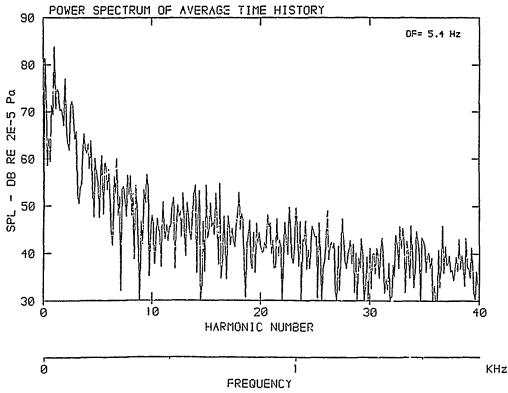




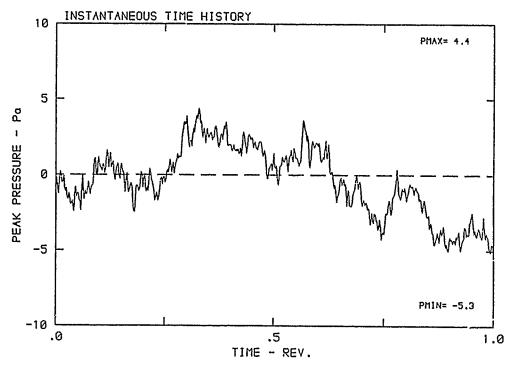
 β : 23.7° MH: .4321 n: 1294 rpm v/u: .370 ϕ : .0° T: 287.2 K

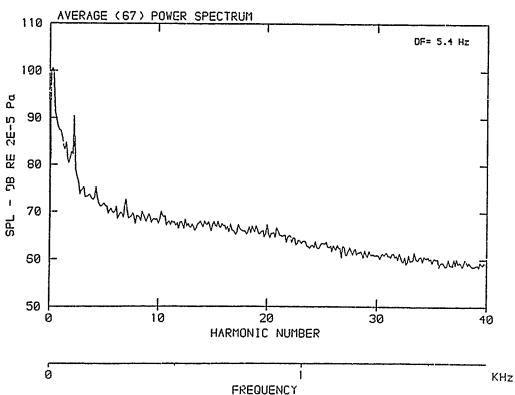


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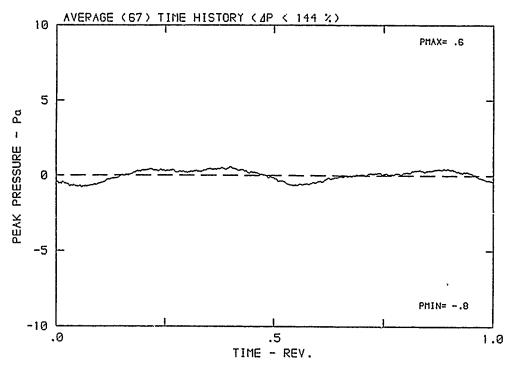


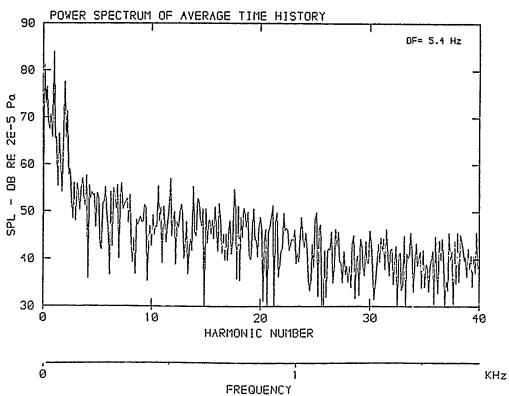
 β : 23.7° MH: .4321 n: 1294 rpm v/u: .370 ϕ : .0° T: 287.2 K



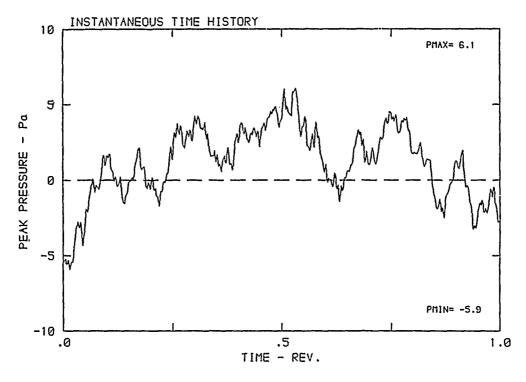


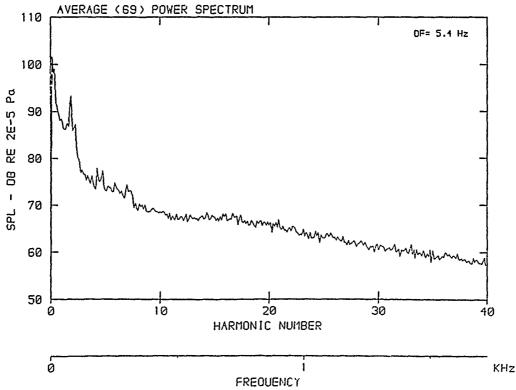
 β : 23.7° MH: .4321 n: 1294 rpm v/u: .370 ϕ : .0° T: 287.2 K



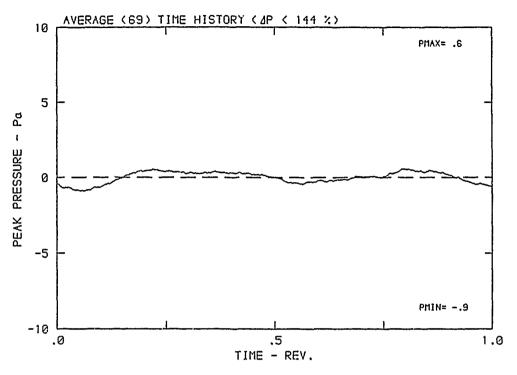


 $\beta\colon\,23.7^{\circ}\,$ MH: .4321 n: 1294 rpm v/u: .370 $\varphi\colon\,.0^{\circ}\,$ T: 287.2 K

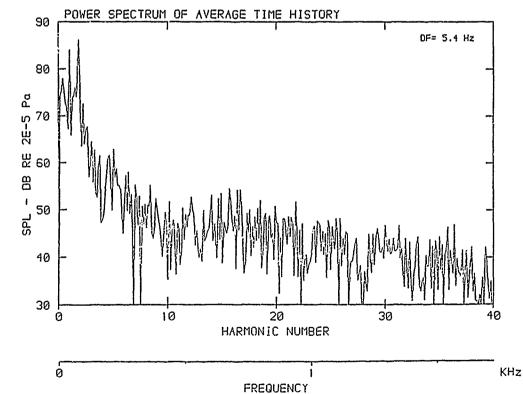




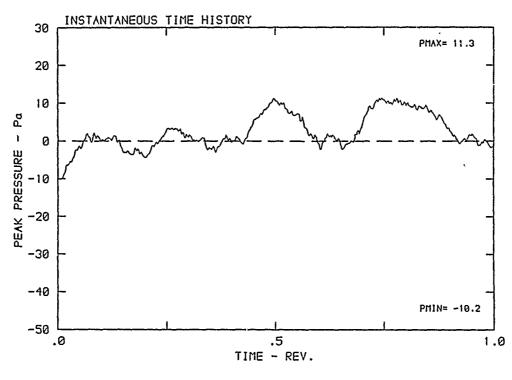
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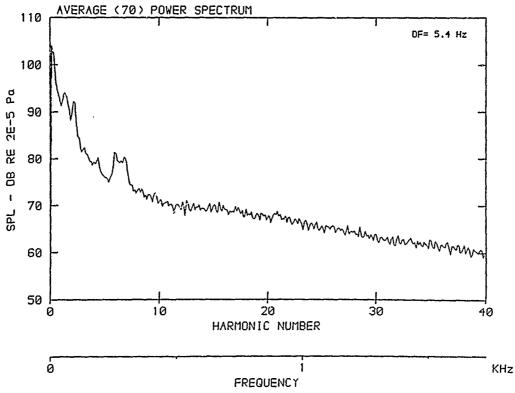


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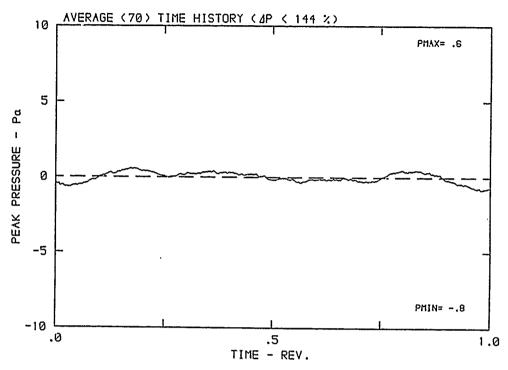


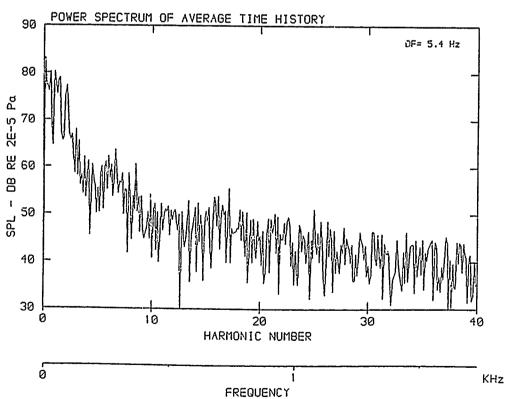
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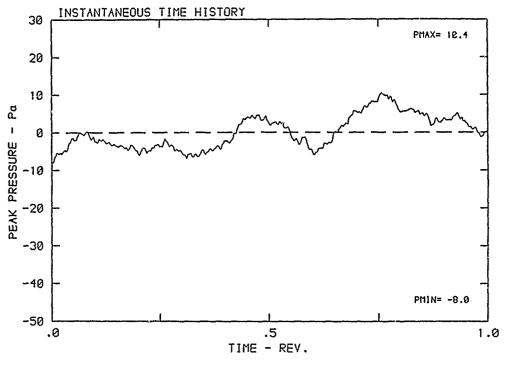
 $\beta\colon\,23.7^{o}$ MH: .4321 n: 1294 rpm v/u: .370 $\varphi\colon\,.0^{e}$ T: 287.2 K

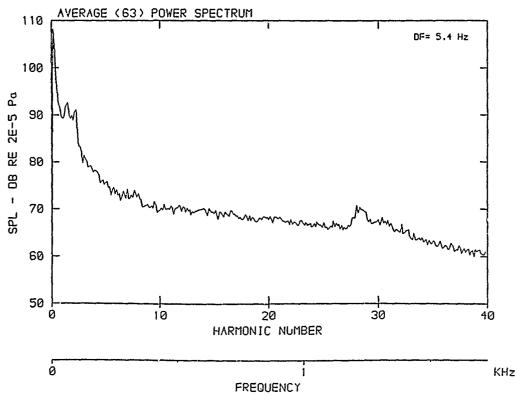




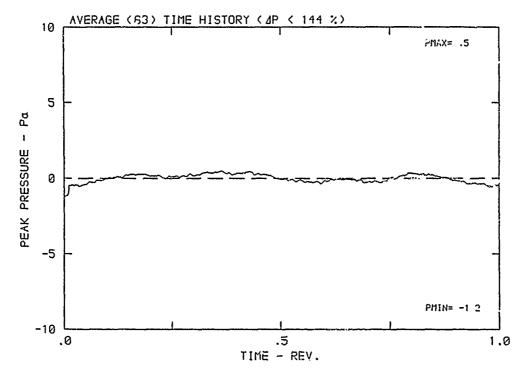
次次國內公司於20個的公司的國際公司之子之國內公司的國際公司之外的國際公司之前,可以與1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1

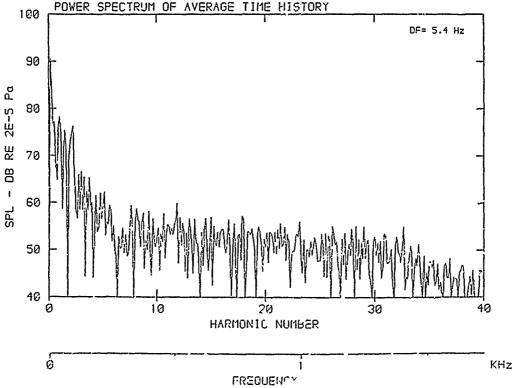
β: 23.7° MH: .4321 n: 1294 rpm ν/u: .370 φ: .0° T: 287.2 K



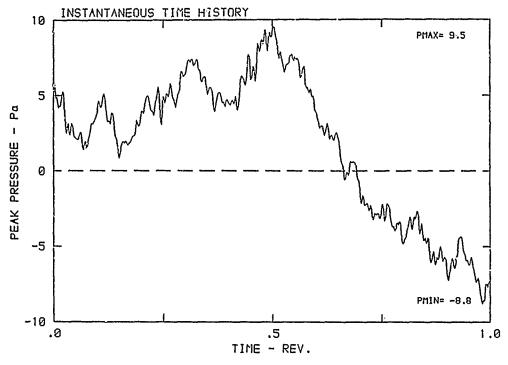


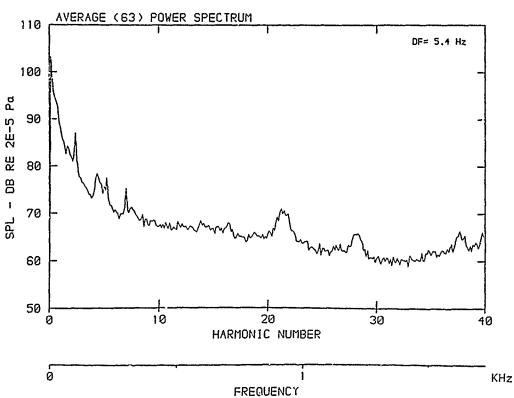
 β : 23.7° MH: .4321 n: 1294 rpm v/u: .370 ϕ : .0° T: 287.2 k



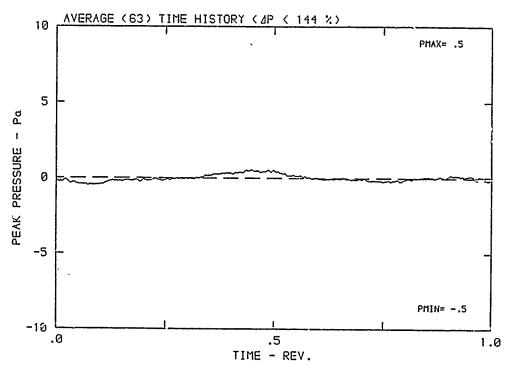


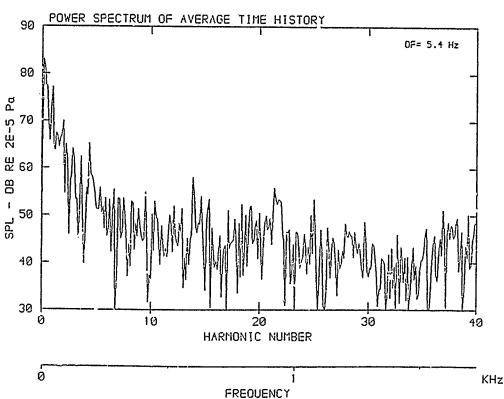
 $β: 23.7^{\circ}$ MH: .4321 n: 1294 rpm ν/u: .370 $φ: .0^{\circ}$ T: 287.2 K



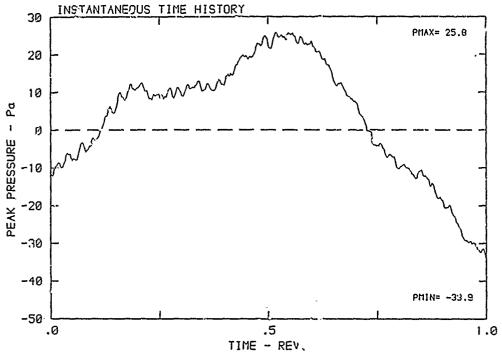


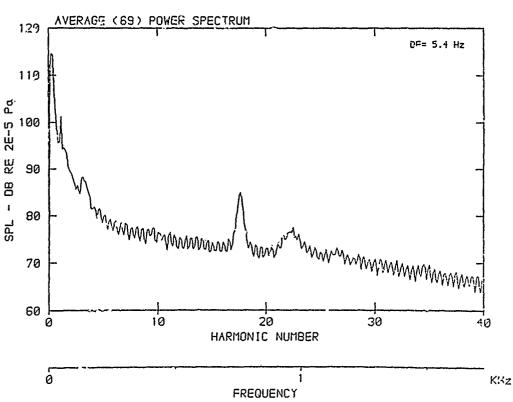
 β : 23.7° MH: .4321 n: 1294 rpm v/u: .370 ϕ : .0° T: 287.2 K





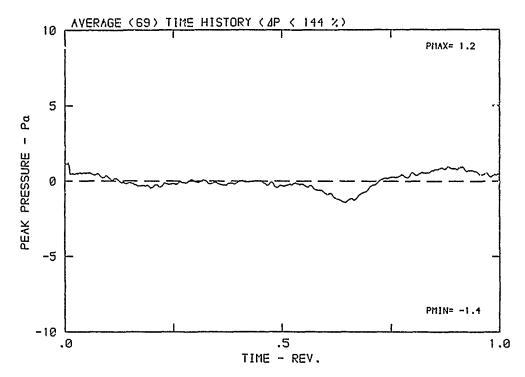
 β : 23.7° MH: .432? n: 1294 rpm v/u: .370 ϕ : .0° T: 287.2 K



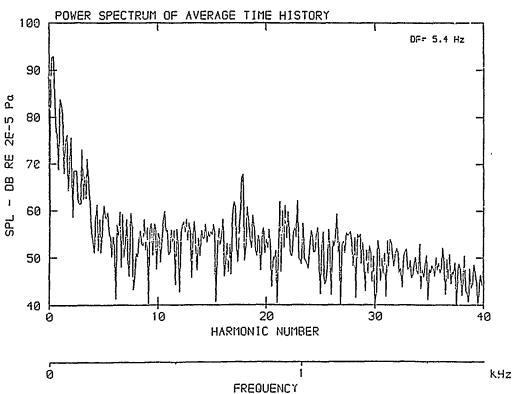


DATA POINT: CN-6 RUN: 102 MP: 9

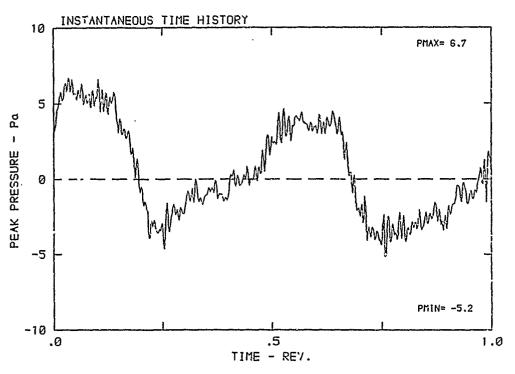
 $\beta\colon 23.7^{o}$ MH: .4321 n: 1294 rpm v/u: .370 $\varphi\colon .0^{o}$ T: 287.2 K



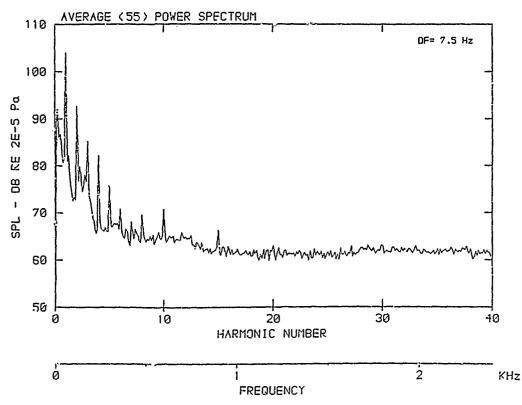
STATES AND ASSESSED OF THE PROPERTY OF THE PRO



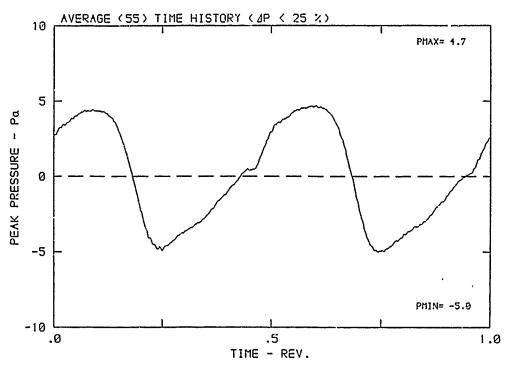
 $\beta\colon\thinspace 29.0^{o}$ MH: .5785 n: 1800 rpm v/u: .229 $\varphi\colon\:.0^{o}$ T: 287.0 K

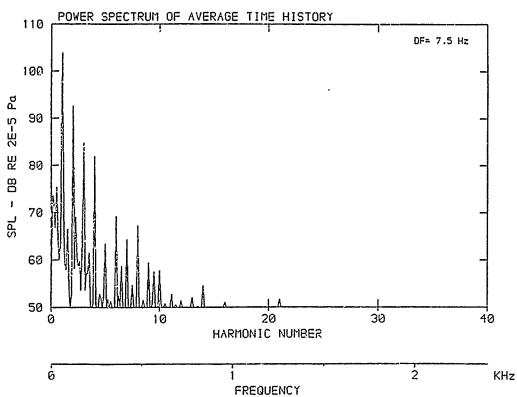


The second of th

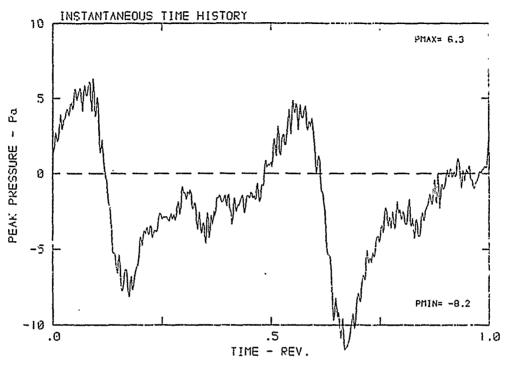


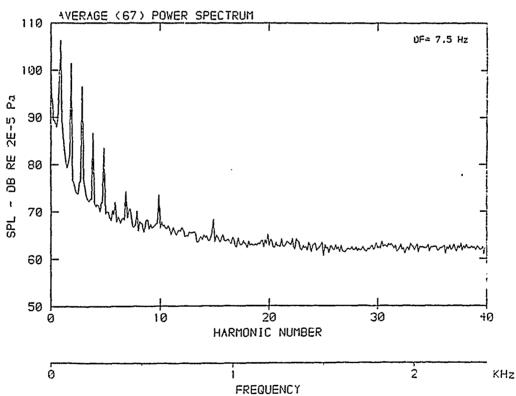
 β : 29.0° MH: .5785 n: 1800 rpm $\mbox{v/u}$: .229 $\mbox{$\phi$}$: .0° T: 287.0 K



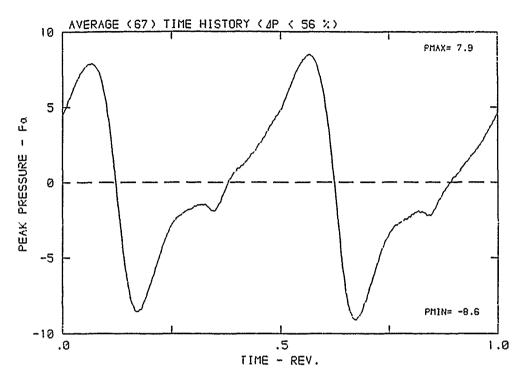


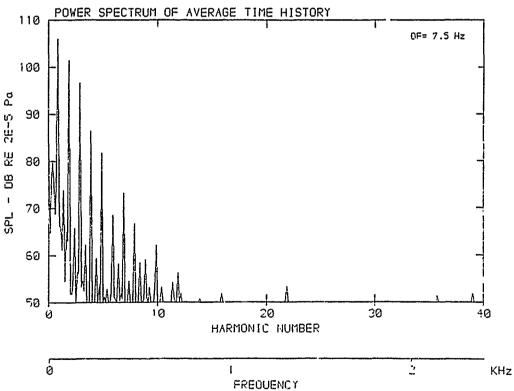
β: 29.0° MH: .5785 n: 1800 rpm γ/u: .229 μ: .0° Τ: 137.3 κ



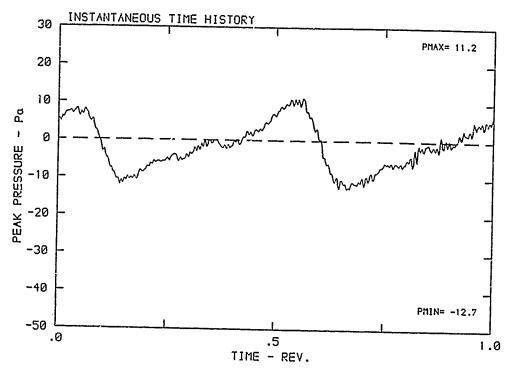


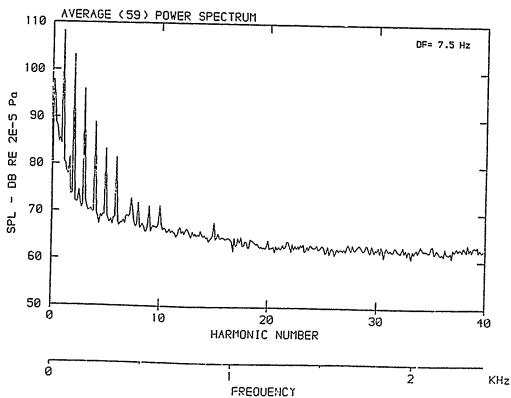
 β : 29.0° MH: .5785 n: 1800 rpm v/u: .229 ψ : .0° T: 287.0 K



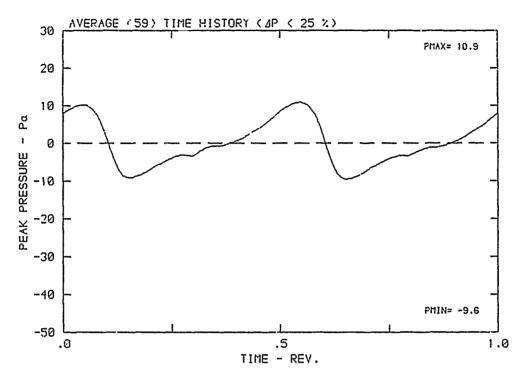


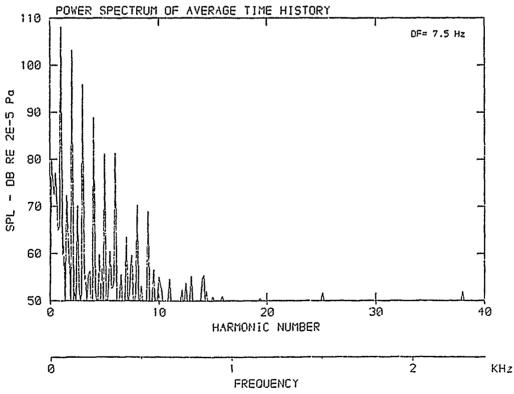
 β : 29.0° MH: .5785 n: 1800 rpm v/u: .229 ϕ : .0° T: 287.0 K



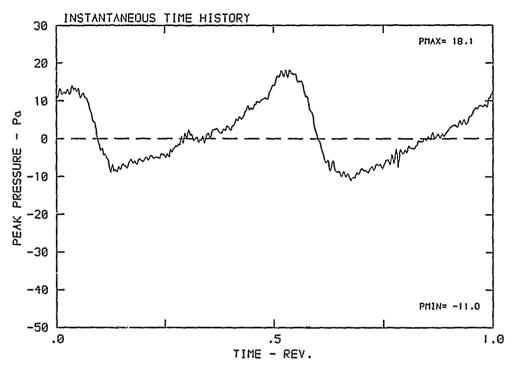


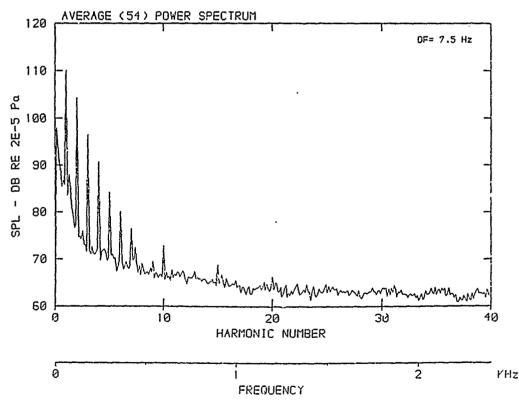
 β : 29.0° MH: .5785 n: 1800 rpm v/u: .229 ϕ : .0° T: 287.0 K



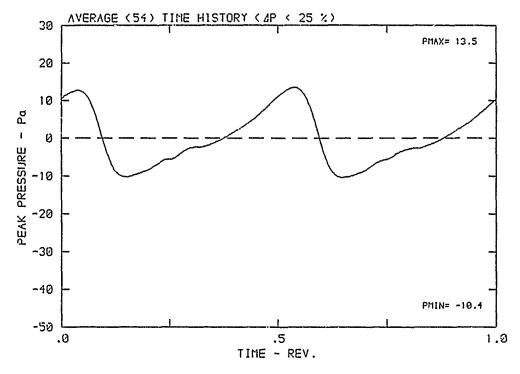


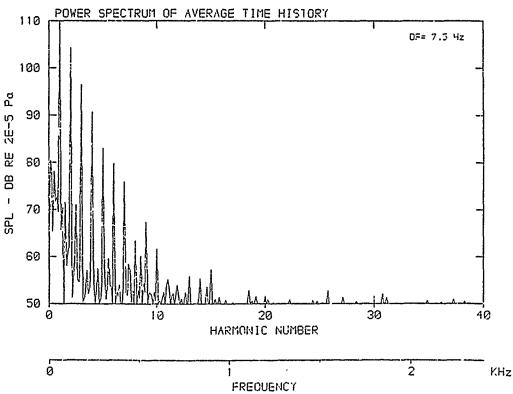
 $\beta: 29.0^{\circ}$ MH: .5785 n: 1800 rpm v/u: .229 $\phi: .0^{\circ}$ T: 287.0 K



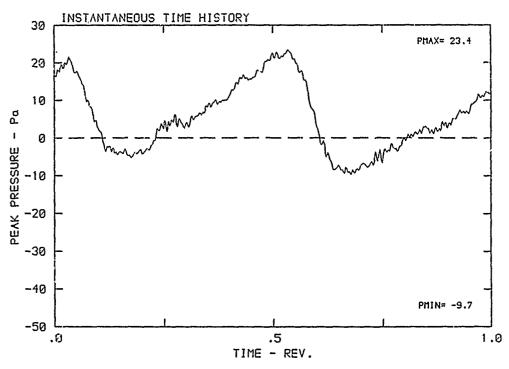


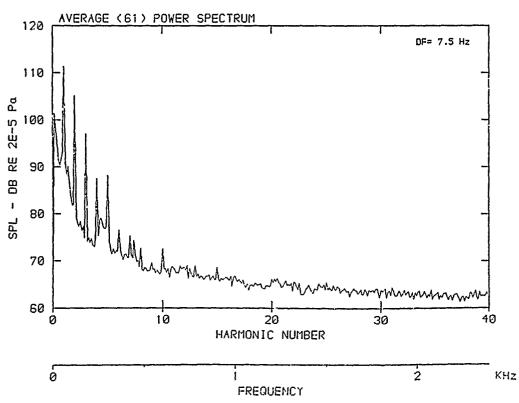
 $\beta\colon\,29.0^{\circ}\,$ MH: .5785 n: 1800 rpm v/u: .229 $\varphi\colon\,.0^{\circ}\,$ T; 287.0 K



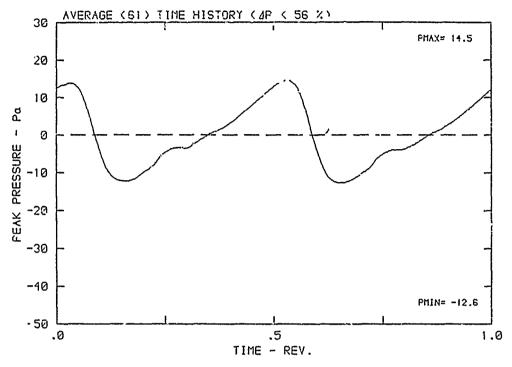


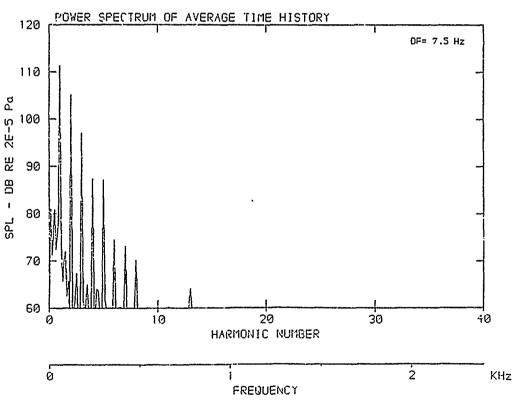
 $\beta\colon\,29.0^{\circ}\,$ MH: .5785 n: 1800 rpm v/u: .229 $\,\varphi\colon\,.0^{\circ}\,$ T: 287.0 K



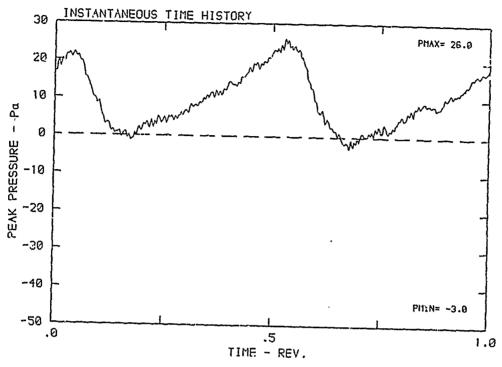


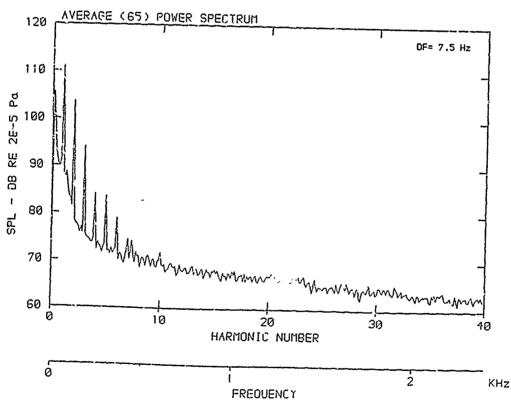
 β : 29.0° MH: .5785 n: 1800 rpm v/u: .229 ϕ : .0° T: 287.0 K



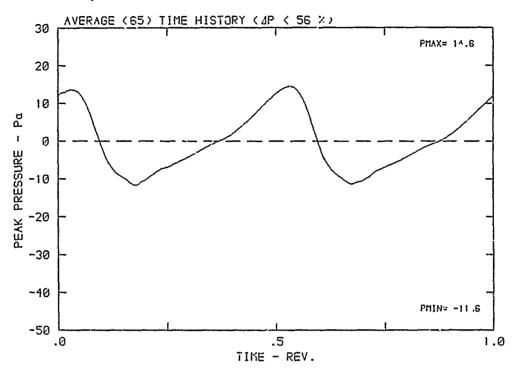


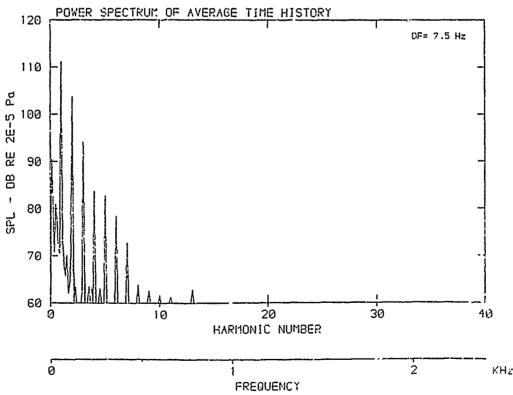
β: 29.0° MH: .5785 n: 1800 rpm v/u: .229 φ: .0° T: 287.0 K



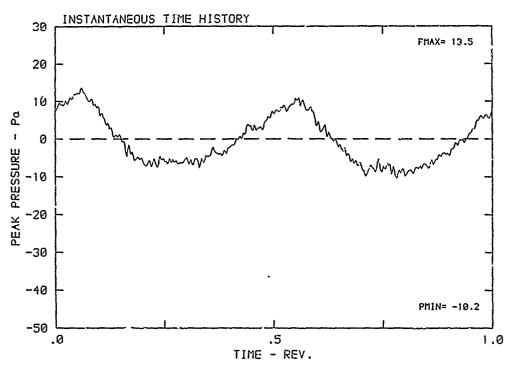


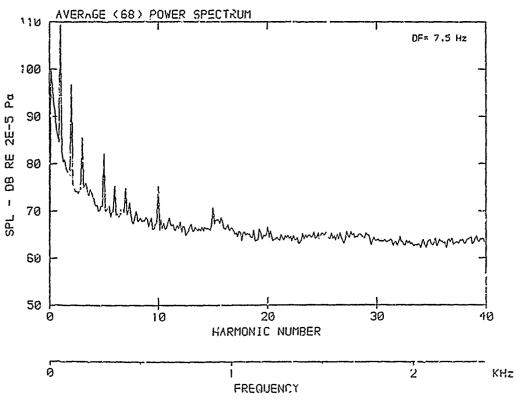
 β : 29.0° MH: .5785 n: 1800 rpm v/u: .229 ϕ : .0° T: 287.0 K



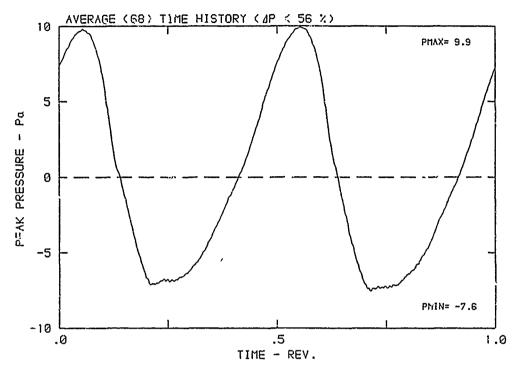


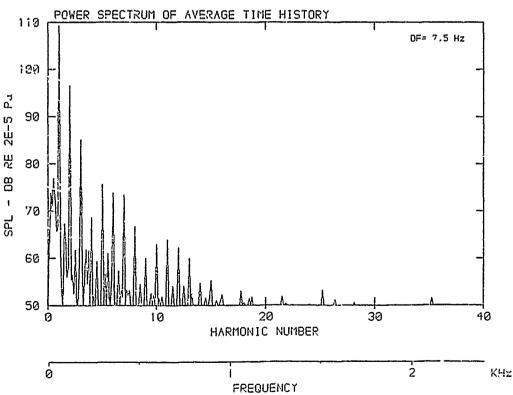
 β : 29.0° MH: .5785 n: 1800 rpm v/u: .229 ϕ : .0° T: 287.0 k



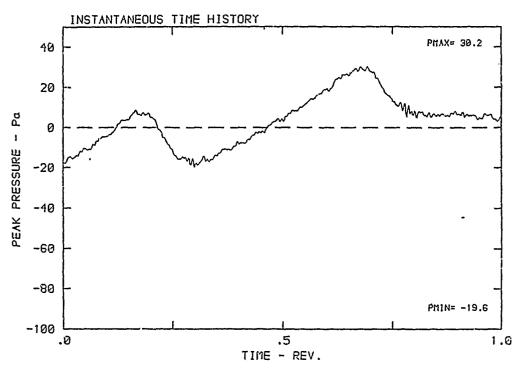


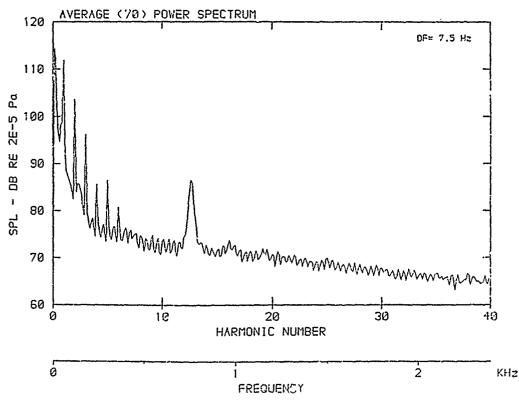
 $\beta\colon\,29.0^{\circ}\,$ MH: .5785 n: 1800 rpm v/u: .229 $\varphi\colon\,.0^{\circ}\,$ T: 287.0 K



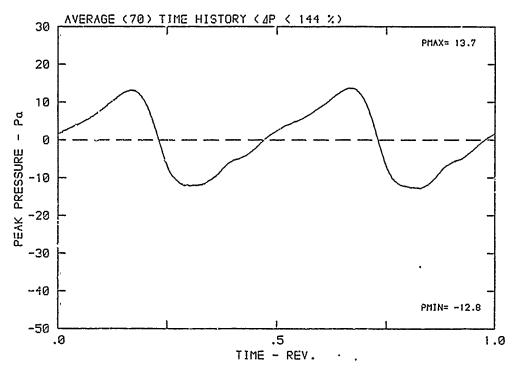


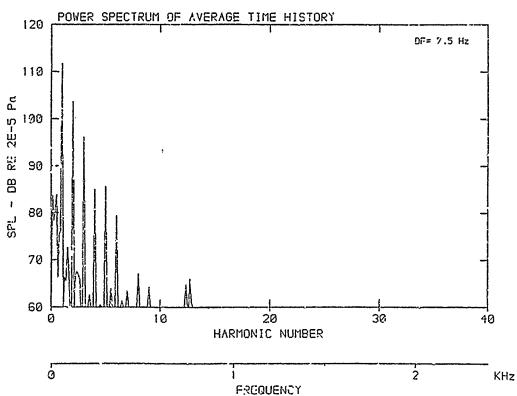
 $\beta\colon\,29.0^{\circ}\,$ MH: .5785 n: 1800 rpm v/u: .229 $\,\varphi\colon\,.0^{\circ}\,$ T: 287.0 K



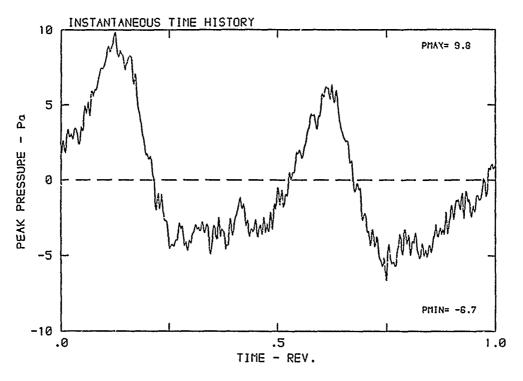


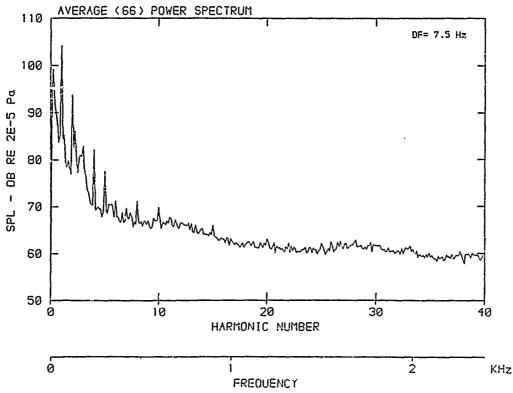
 $β: 29.0^{\circ}$ MH: .5785 n: 1800 rpm v/u: .229 $φ: .0^{\circ}$ T: 287.0 K



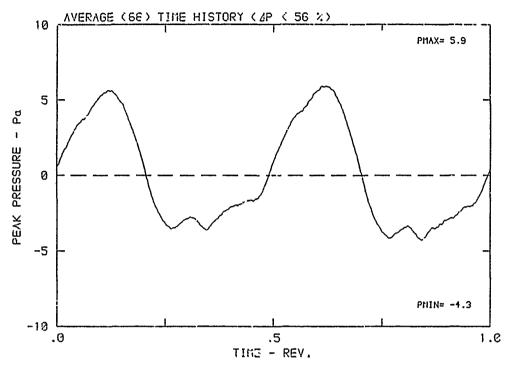


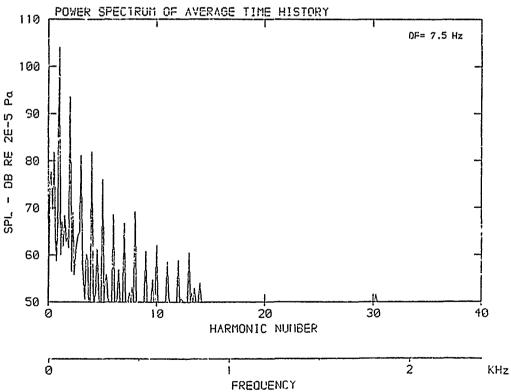
 β : 29.0° MH: .5852 n: 1800 rpm v/u; .268 ϕ : .0° T: 285.6 K



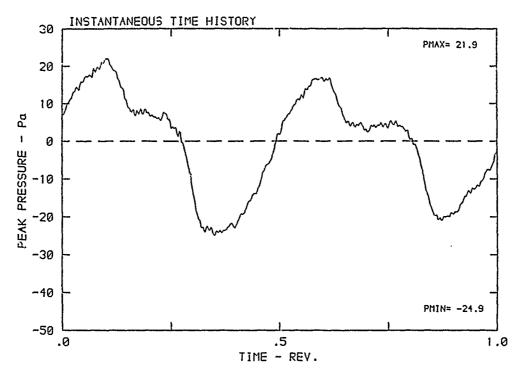


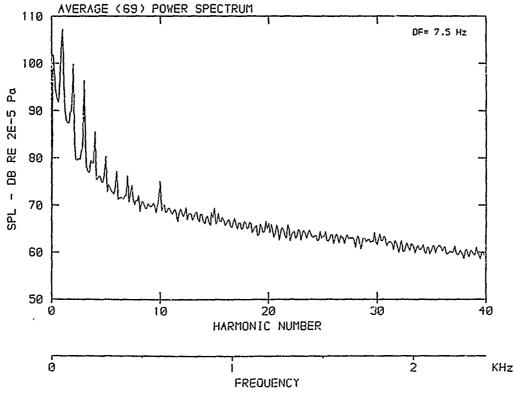
 β : 29.0° MH: .5852 n: 1800 rpm v/u: .268 ϕ : .0° T: 285.6 K



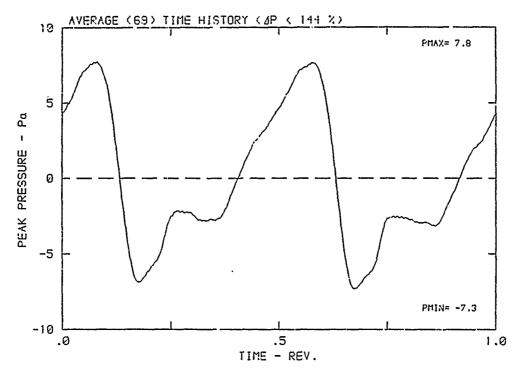


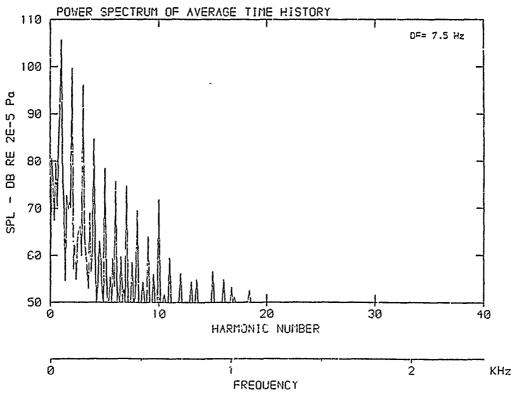
 $\beta\colon\,29.0^{\circ}\,$ MH: .5852 n: 1800 rpm $\,$ v/u: .268 $\,$ $\,$ $\,$ $<math display="inline">\,$ $\,$ 1: 285.6 K





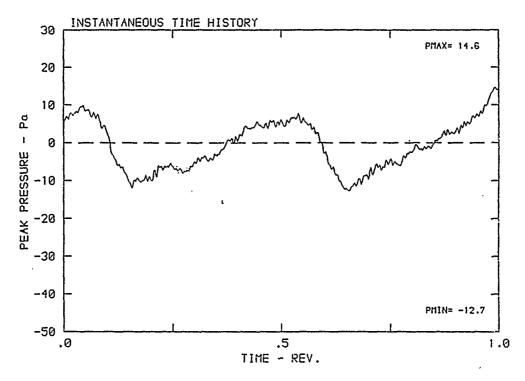
 β : 29.0° MH: .5852 n: 1800 rpm v/u: .268 ϕ : .0° T: 285.6 K

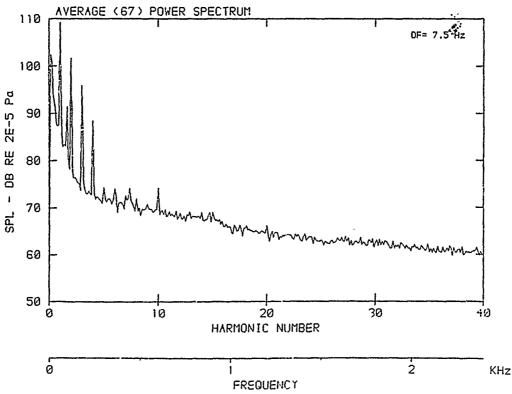




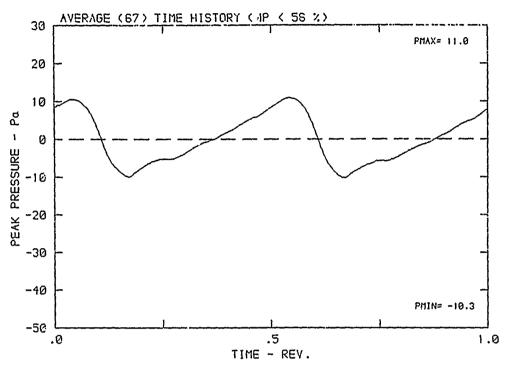
ANALYSIS ANALYSIS OF THE STANDARD OF THE STAND

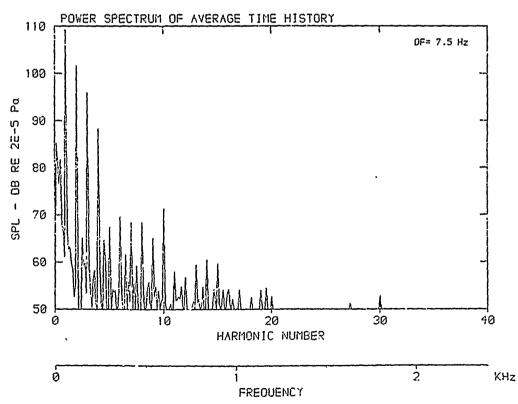
 β : 29.0° MH: .5852 n: 1800 rpm v/u: .268 ϕ : .0° T: 285.6 K



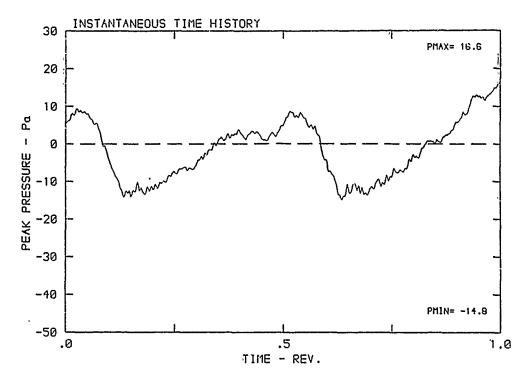


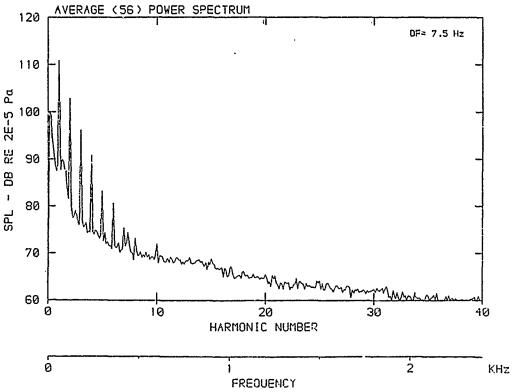
 $\beta: 29.0^{\circ}$ MH: .5852 n: 1800 rpm v/u: .268 $\phi: .0^{\circ}$ T: 285.6 K



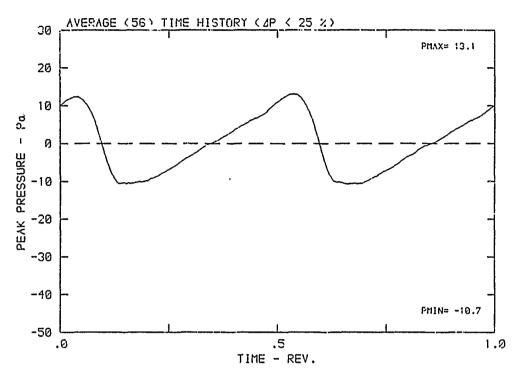


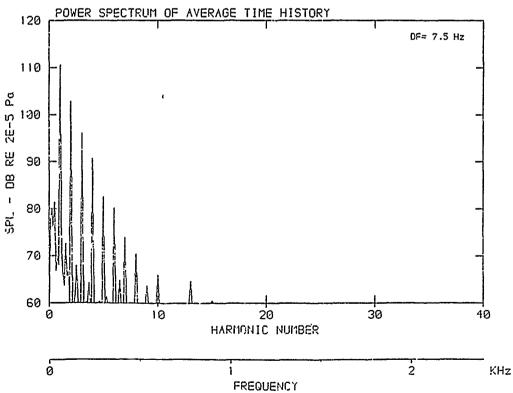
 β : 29.0° MH: .5852 n: 1800 npm $\mbox{v/u}$: .268 $\mbox{$\phi$}$: .0° T: 285.6 K



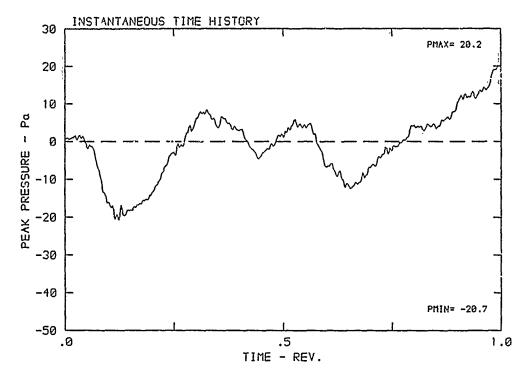


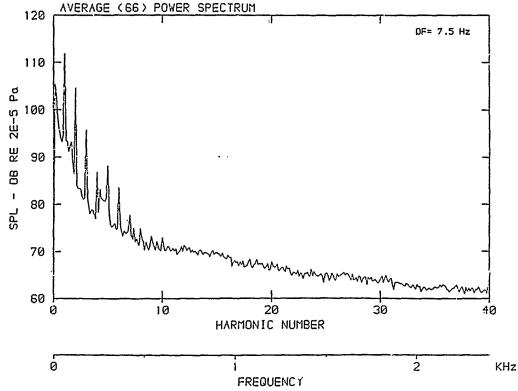
 β : 29.0° MH: .5852 n: 1800 rpm v/u: .268 ϕ : .0° T: 285.6 K



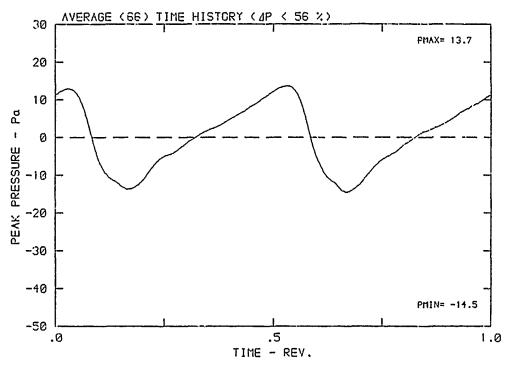


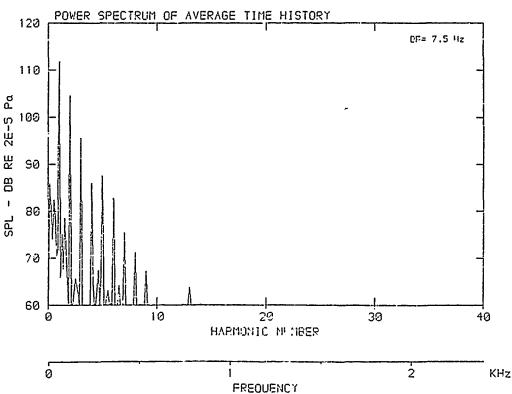
β: 29.0° MH: .5852 n: 1800 rpm v/u: .268 ψ: .0° T: 285.6 K



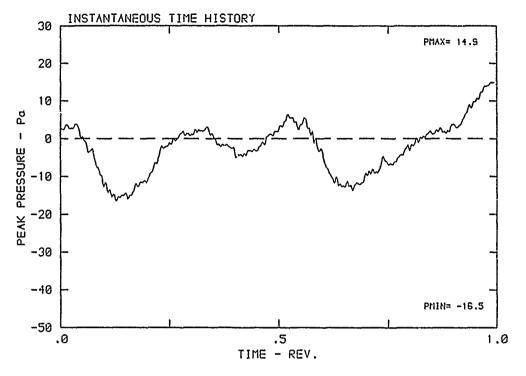


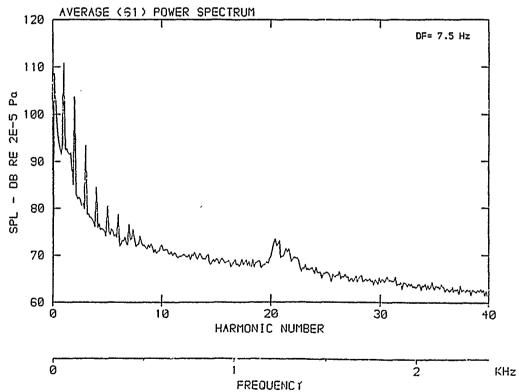
 β : 29.0° MH: .5852 n: 1800 rpm v/u: .268 ϕ : .0° T: 285.6 K



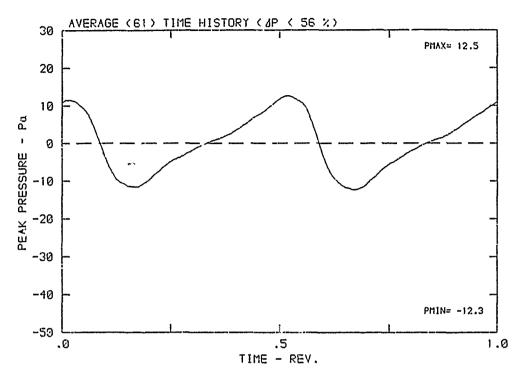


 β : 29.0° MH: .5852 n: 1800 rpm V/u: .268 ϕ : .0° T: 285.6 K

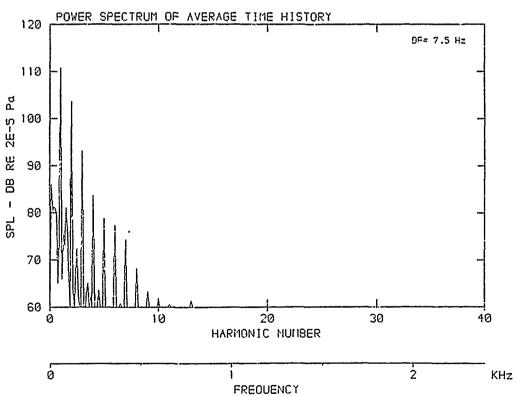




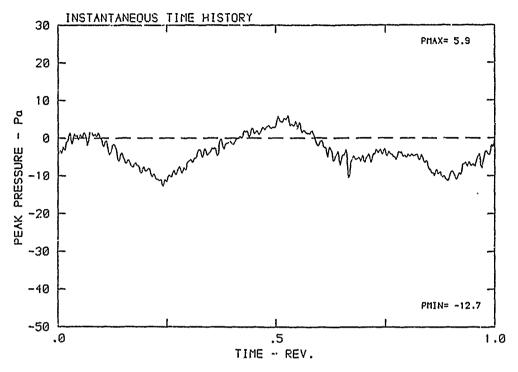
 β : 29.0° MH: .5852 n: 1800 rpm $\mbox{ v/u}$: .268 $\mbox{ }\phi$: .0° T: 285.6 K



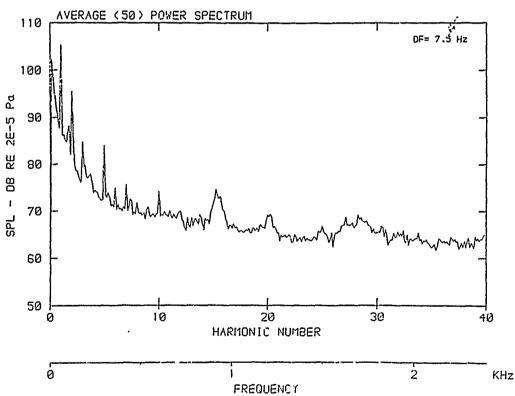
NEWSTERN MERCHANICA (NEESSELD ESCRETE) WHENCHE MENTER



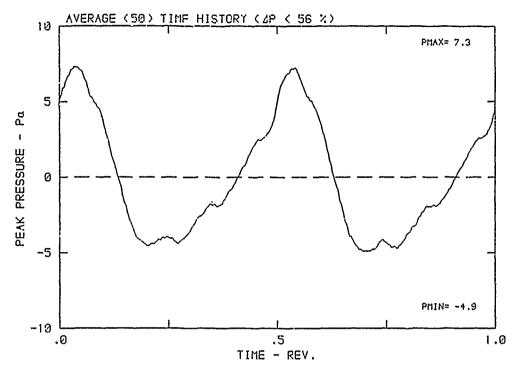
 $\beta\colon\,29.0^{\circ}\,$ MH: .5852 n: 1800 rpm $\,$ v/u: .268 $\,$ $\varphi\colon\,.0^{\circ}\,$ T: 285.6 K

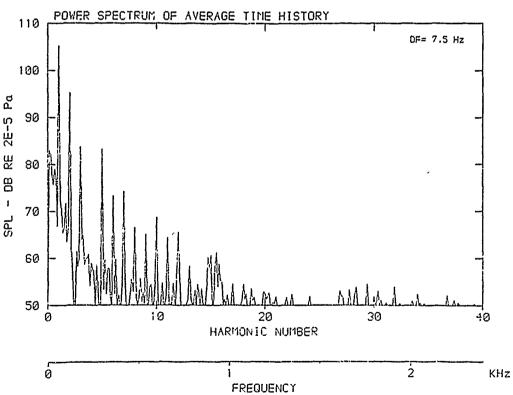


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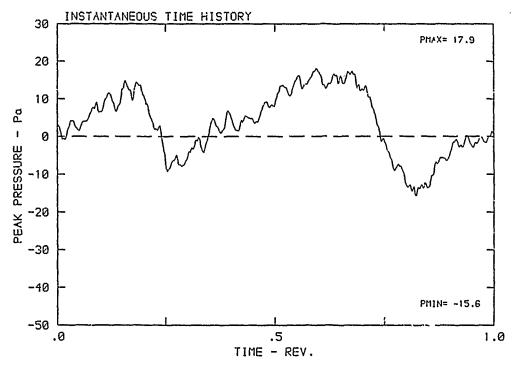


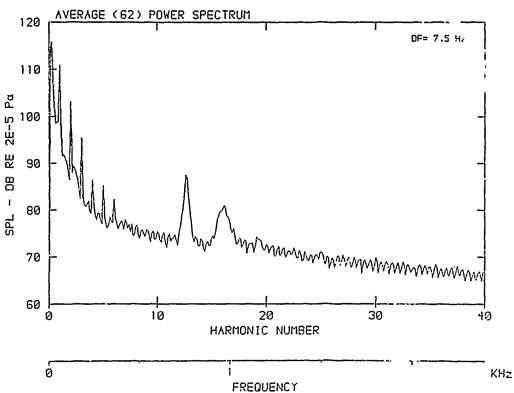
 β : 29.0° MH: .5852 n: 1800 rpm v/u: .268 ϕ : .0° T: 285.6 K





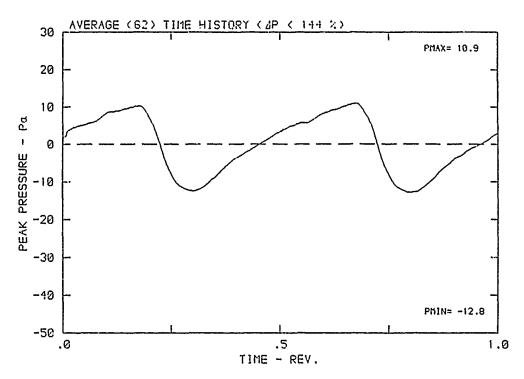
 $\beta\colon\thinspace 29.0^{\circ}$ MH: .5852 n: 1800 rpm v/u: .268 $\varphi\colon\:.0^{\circ}$ T: 285.6 K

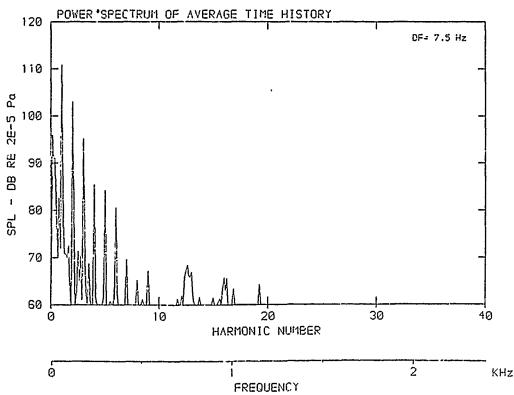




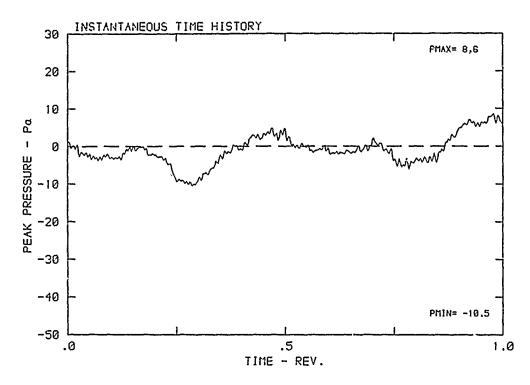
Particinal descension (gradules describes represented by the protocology) (extension of the protocology) fathered by the

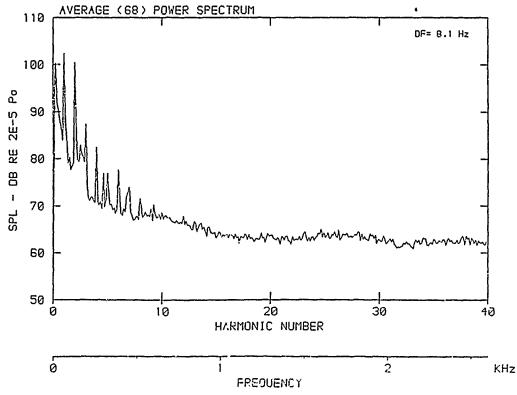
 β : 29.0° MH: .5852 n: 1800 rpm v/u: .268 ϕ : .0° T: 285.6 K





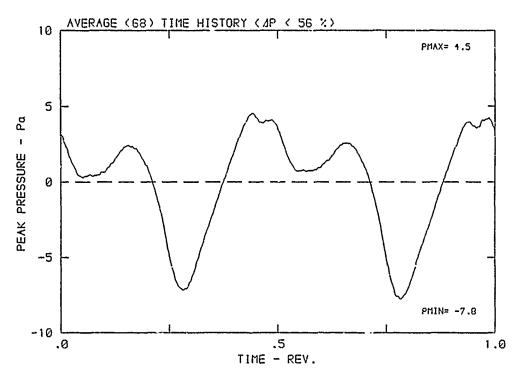
 β : 29.0° MH: .6309 n: 1950 rpm v/u: .246 ϕ : .0° T: 285.4 K

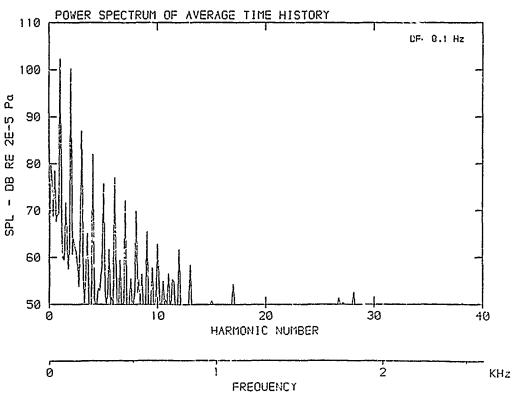




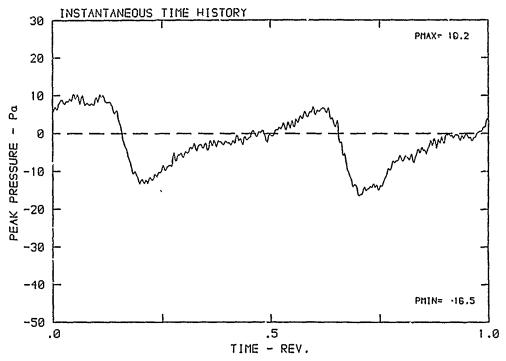
DATA POINT: DN-5 - RUN: 92 MP: 1

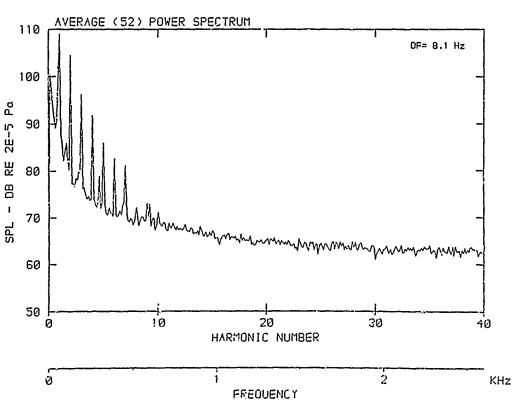
 β : 29.0° MH: .6309 n: 1950 rpm v/u: .246 ϕ : .0° T: 285.4 K



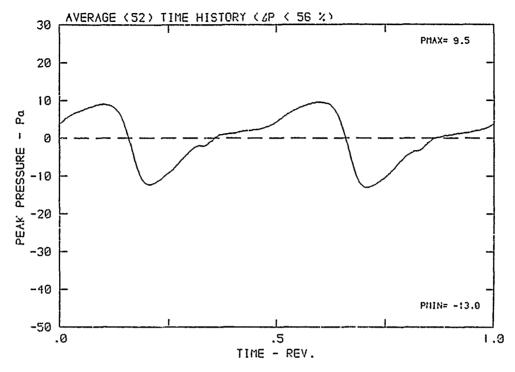


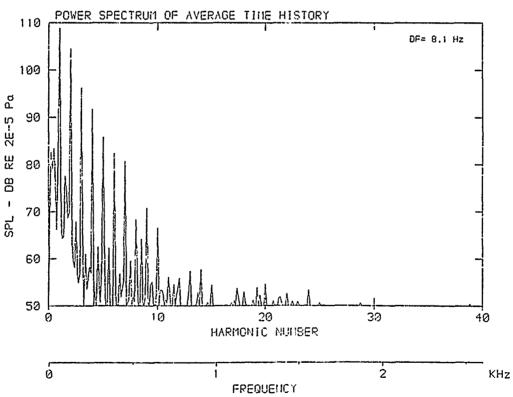
β: 29.0° MH: .6309 n: 1950 rpm ν/u: .246 φ: .0° T: 285.4 K



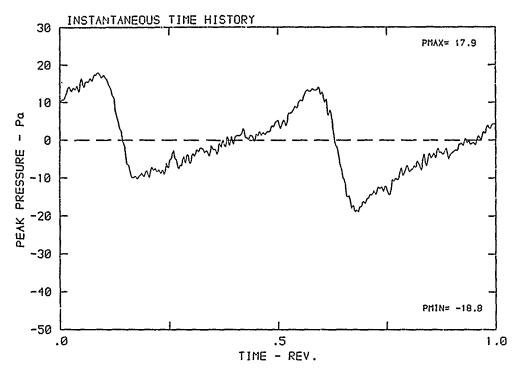


 β : 29.0° MH: .6309 n: 1950 rpm v/u: .246 ϕ : .0° T: 285.4 K

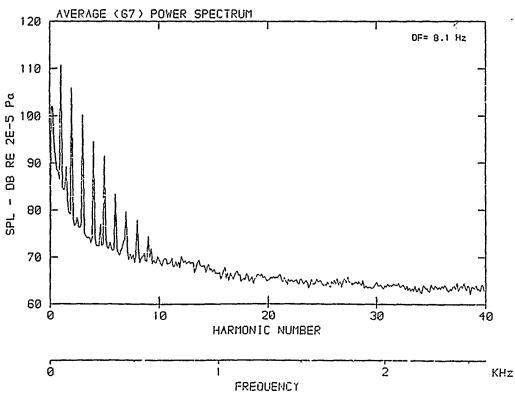




 β : 29.0° MH: .6309 n: 1950 rpm v/u: .246 ϕ : .0° T: 285.4 K



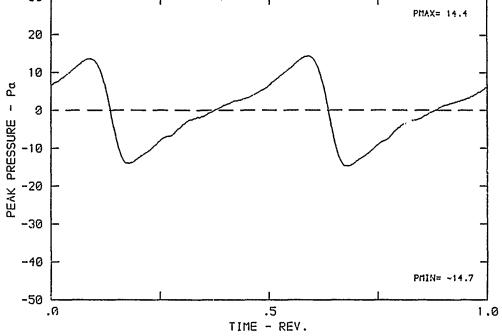
where we exercises seasons and described was a season of the seasons with the seasons of the sea

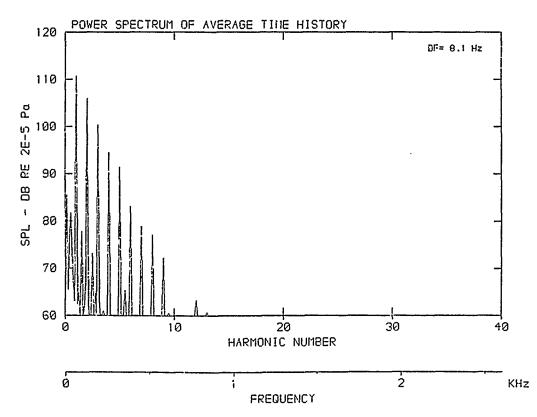


DATA POINT: DN-5 RUN: 92 MP: 3

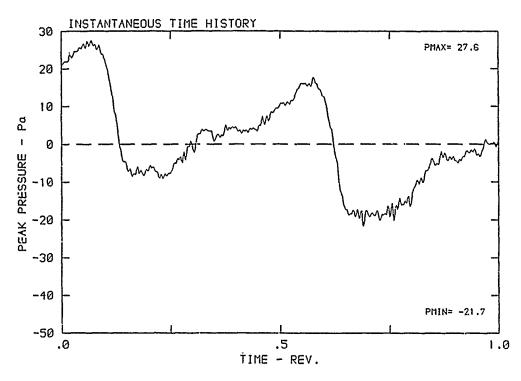
β: 29.0° MH: .6309 n: 1950 rpm v/u: .246 φ: .0° T: 285.4 K

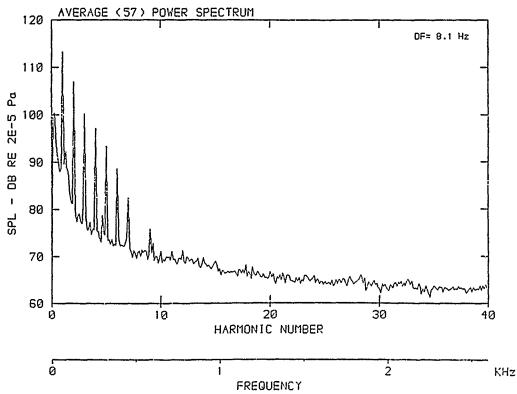
30 AVERAGE (67) TIME HISTORY (ΔP (56 %)



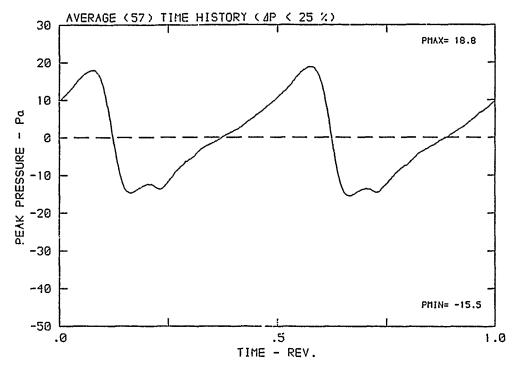


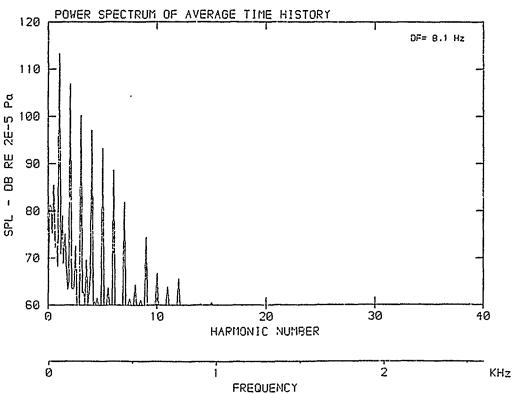
β: 29.0° MH: .6309 n: 1950 rpm v/u: .246 ψ: .0° T: 285.⁴ K



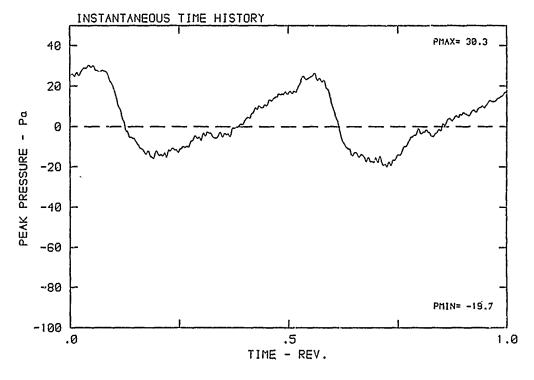


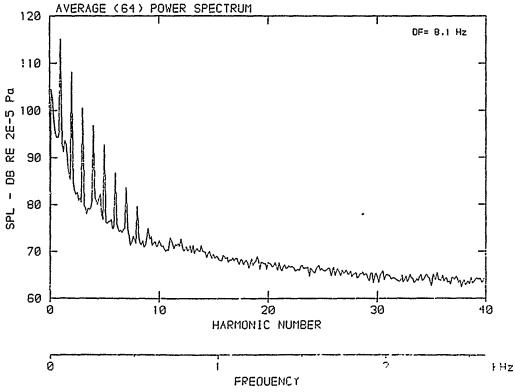
 β : 29.0° MH: .6309 n: 1950 rpm v/u: .246 ϕ : .0° T: 285.4 K



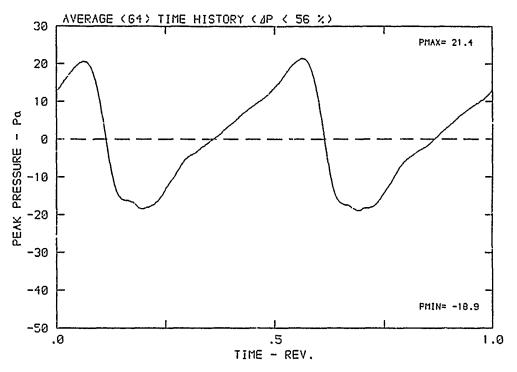


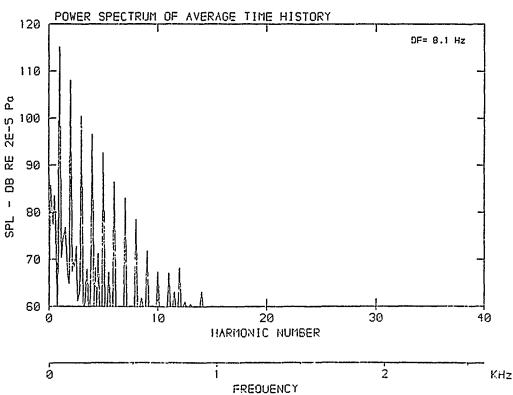
 β : 29.0° MH: .6309 n: 1950 rpm v/u: .246 ϕ : .0° T: 285.4 K



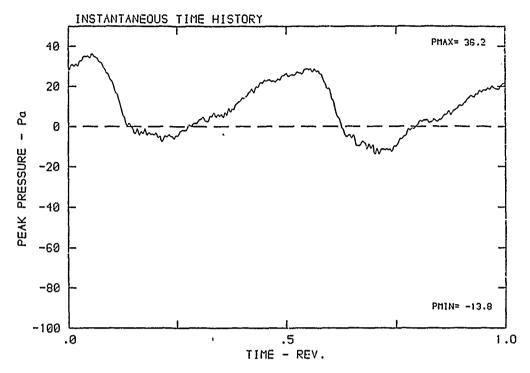


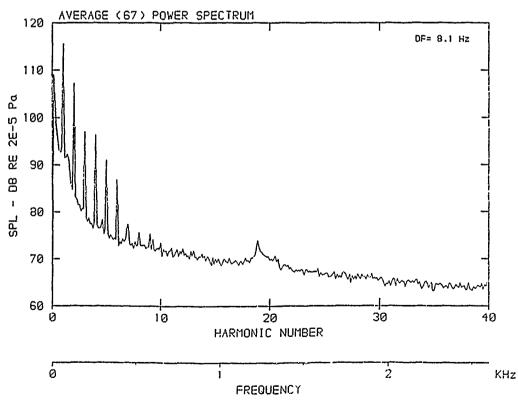
 β : 29.0° MH: .6309 n: 1950 rpm v/u: .246 ϕ : .0° T: 285.4 K



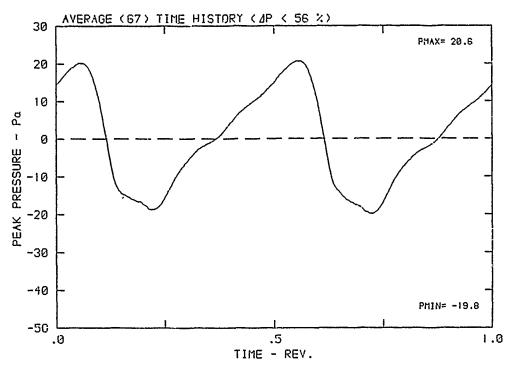


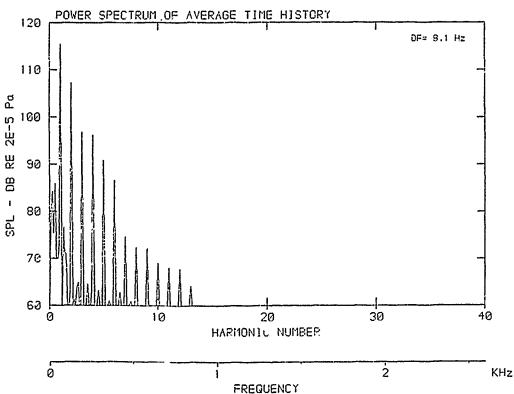
β: 29.0° MH: .6309 n: 1950 npm v/u: .246 φ: .0° T: 285.4 K



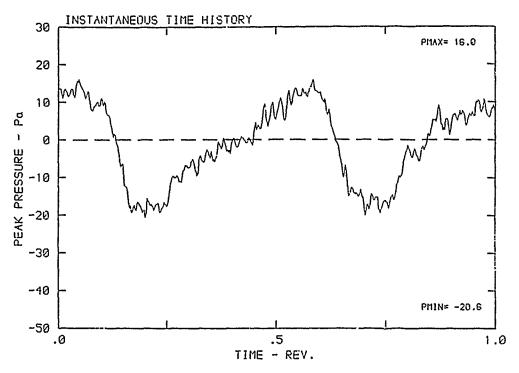


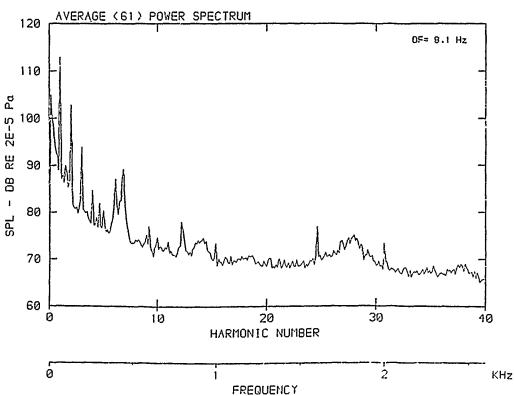
 β : 29.0° MH: .6309 n: 1950 rpm v/u: .246 ϕ : .0° T: 285.4 K



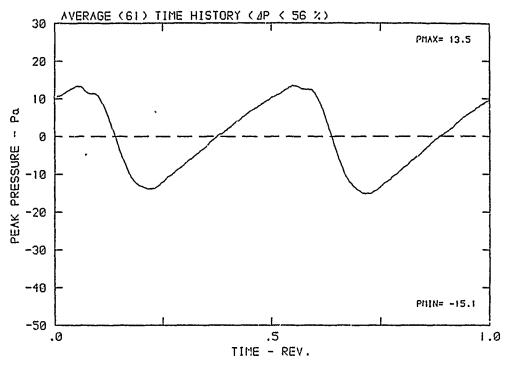


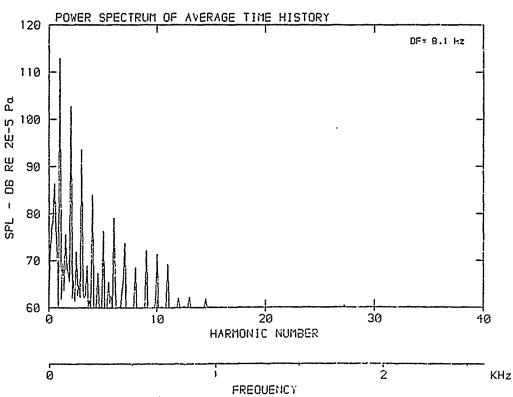
β: 29.0° MH: .6309 n: 1950 rpa γ/u: .246 φ: .0° T: 285.4 K





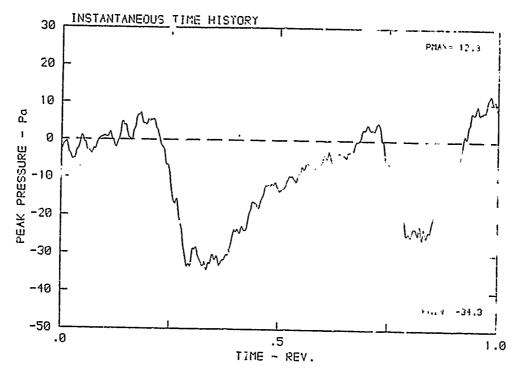
 β : 29.0° MH: .6309 n: 1950 rpm v/u: .246 ϕ : .0° T: 285.4 K

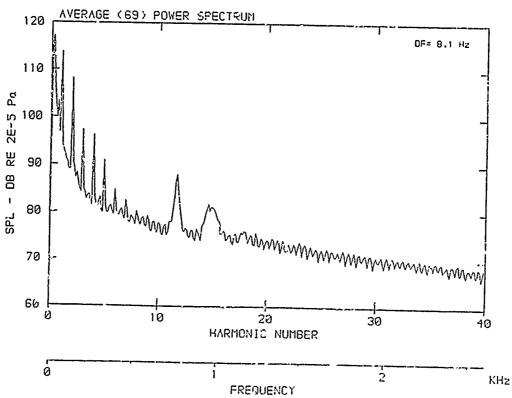




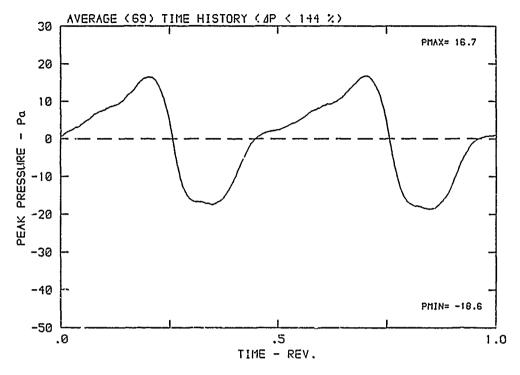
DATA POINT: DN-5 FUN: LF:

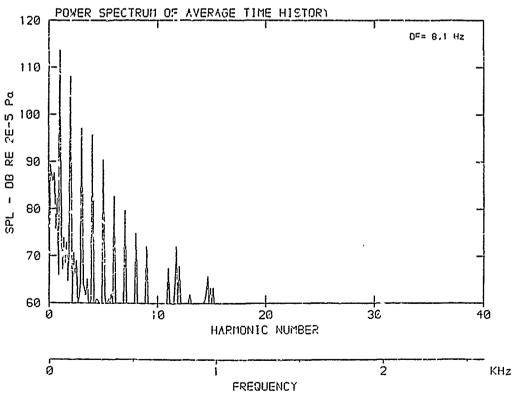
β: 29.0° MH: .6309 n: 1950 / γ ν/u: .245]: .50 -:



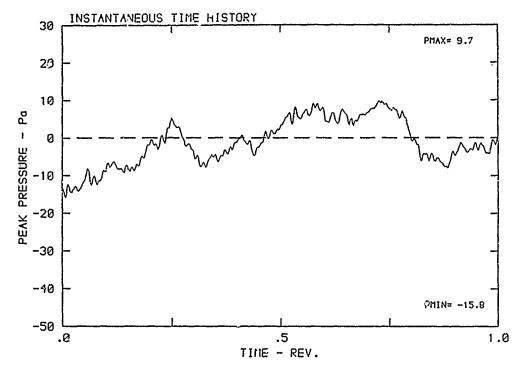


 $\beta\colon\,29.0^{\circ}\,$ MH: .6309 n: 1950 rpm v/u: .246 $\,\varphi\colon\,.0^{\circ}\,$ T: 285.4 K

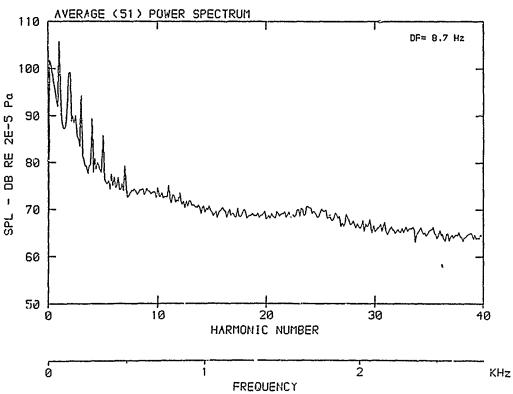




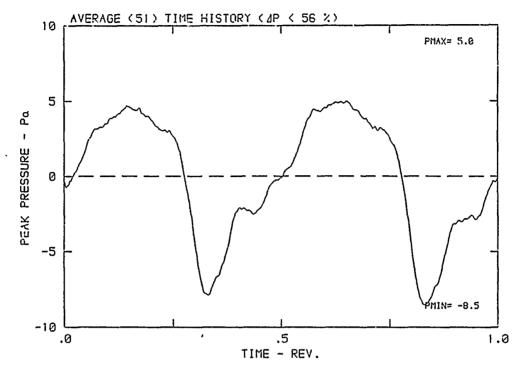
 $\beta\colon\,29.0^{\circ}\,$ MH: .6883 n: 2100 rpm v/u: .302 $\varphi\colon\,.0^{\circ}\,$ T: 286.0 K



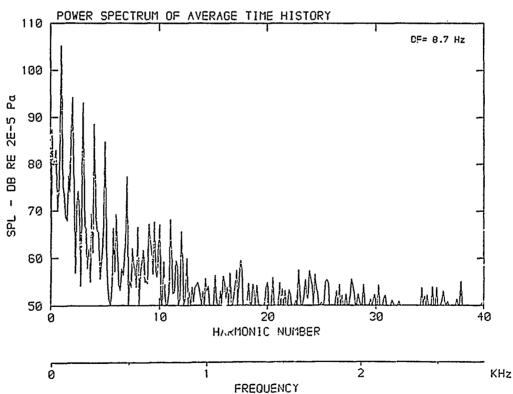
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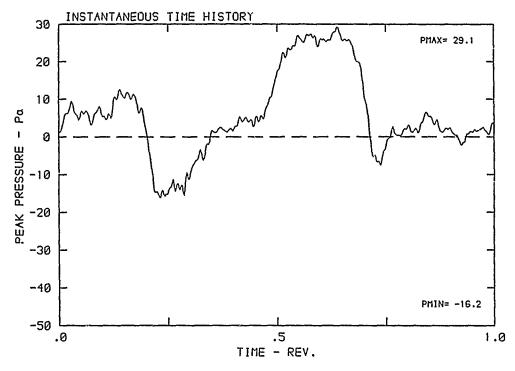
 β : 29.0° MH: .6883 n: 2100 rpm v/u: .302 ϕ : .0° T: 286.0 K

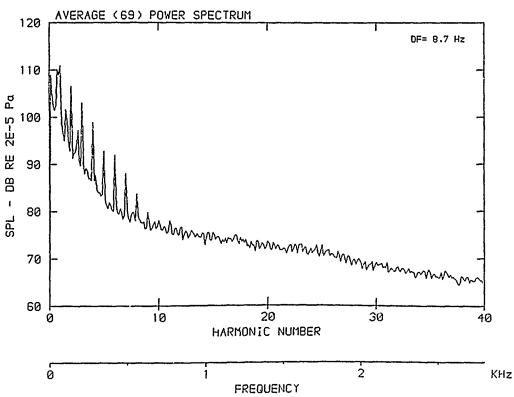


RECORD EXERCISE VERSEER NEWWORLD WINNERS SEEDEN EXECUTE



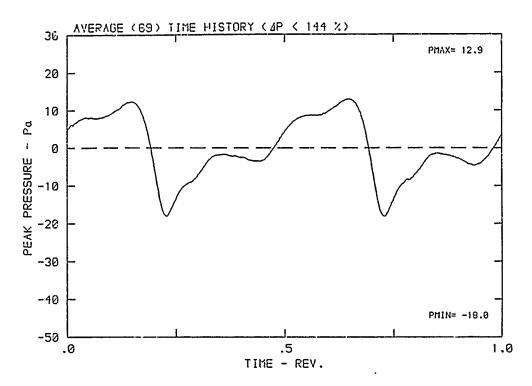
 β : 29.0° MH: .6883 n: 2100 rpm v/u: .302 ϕ : .0° T: 286.0 K

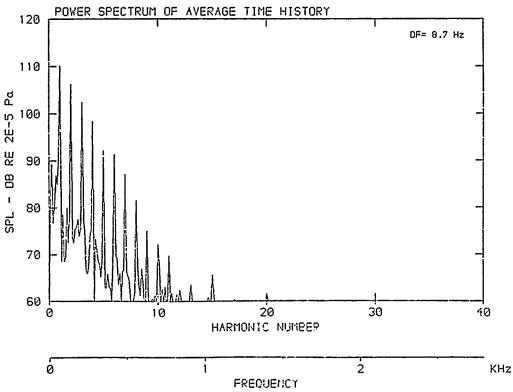




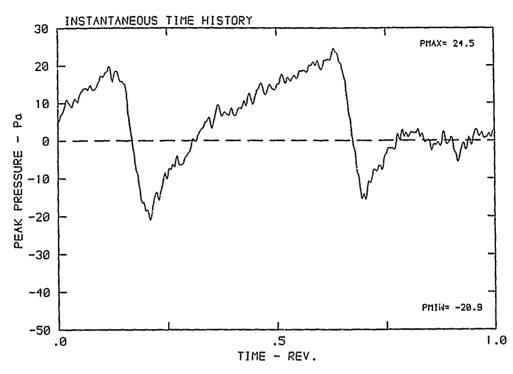
 $\beta\colon\,29.0^{\circ}\,$ MH: .6883 n: 2100 rpm v/u: .302 $\varphi\colon\,.0^{\circ}\,$ T: 286.0 K

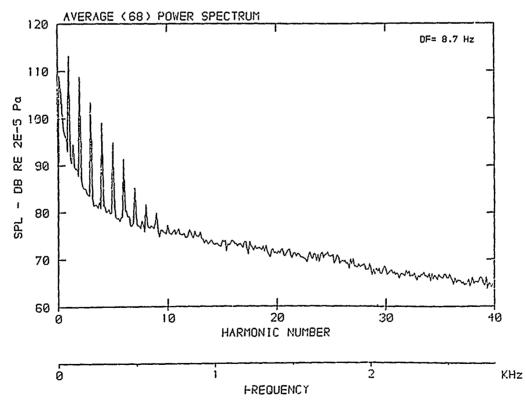
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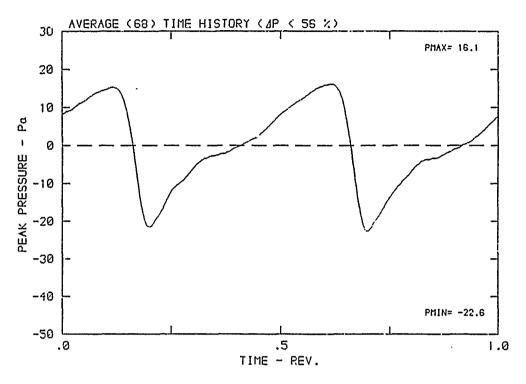


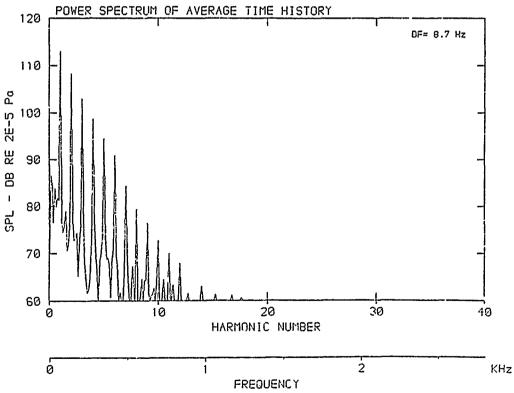
 β : 29.0° MH: .6883 n: 2100 rpm v/u: .302 ϕ : .0° T: 286.0 K



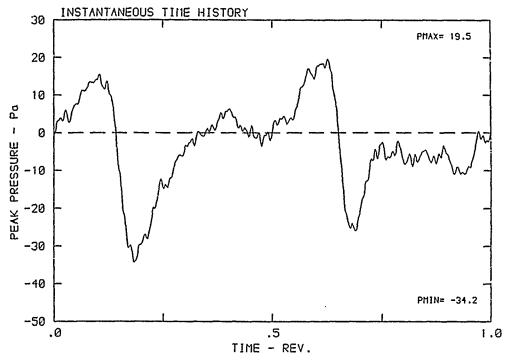


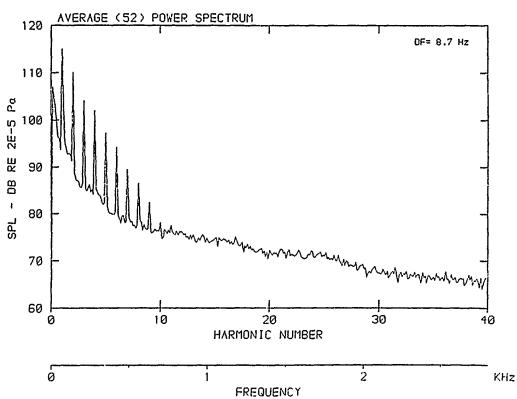
 $\beta\colon\,29.0^{\circ}\,$ MH: .6883 n: 2100 rpm v/u: .302 $\varphi\colon\,.0^{\circ}\,$ T: 286.0 K



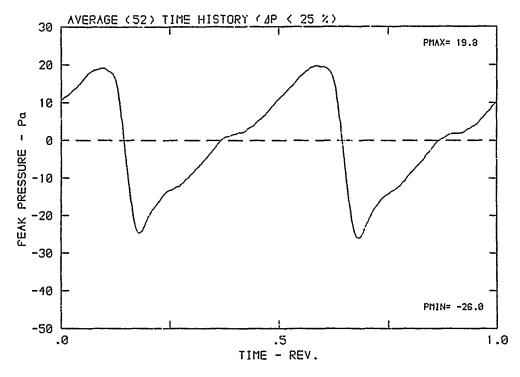


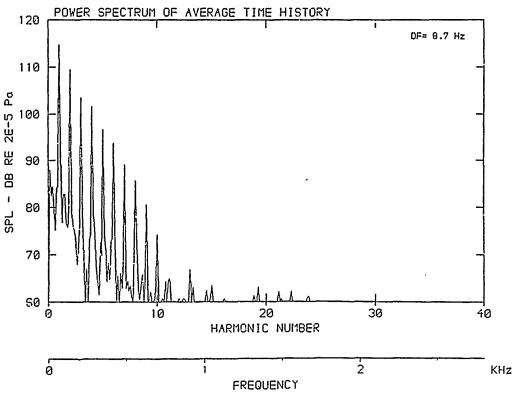
β: 29.0° MH: .6883 n: 2100 rpm v/u: .302 φ: .0° T: 286.0 K



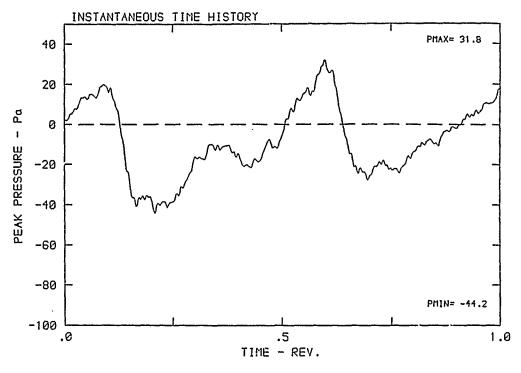


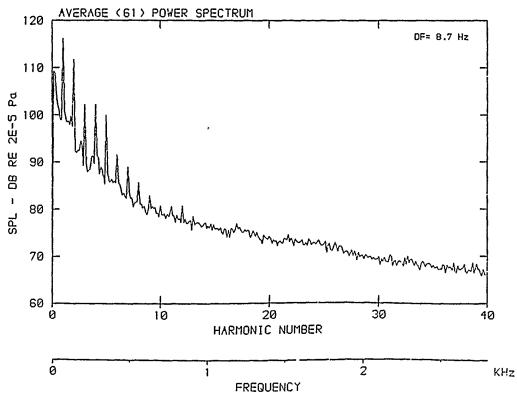
 $\beta\colon\,29.0^{o}\,$ MH: .6883 n: 2100 rpm v/u: .302 $\varphi\colon\,.0^{o}\,$ T: 286.0 K



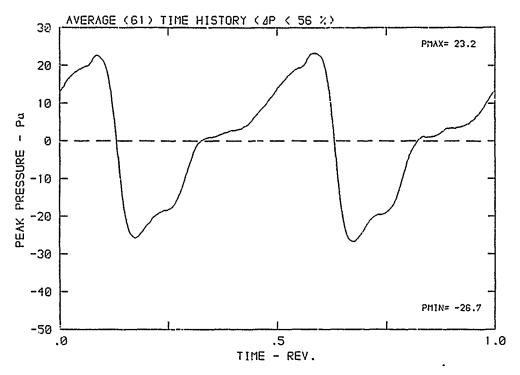


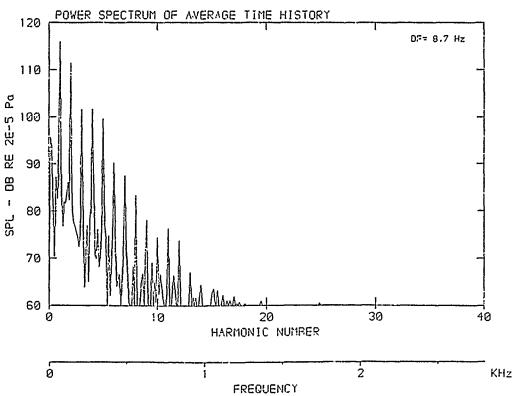
β: 29.0° MH: .6883 n: 2100 rpm v/u: .302 φ: .0° T: 286.0 K



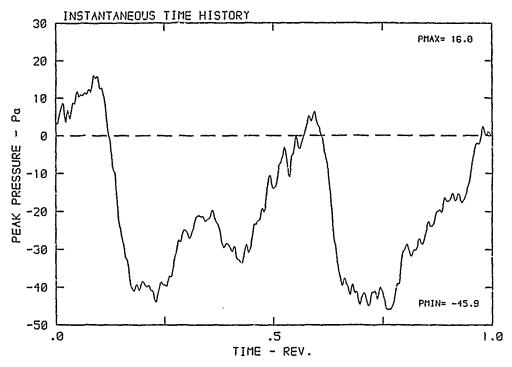


 $\beta\colon\,29.0^{\circ}\,$ MH: .6883 n: 2100 rpm v/u: .302 $\varphi\colon\,.0^{\circ}\,$ T: 286.0 K

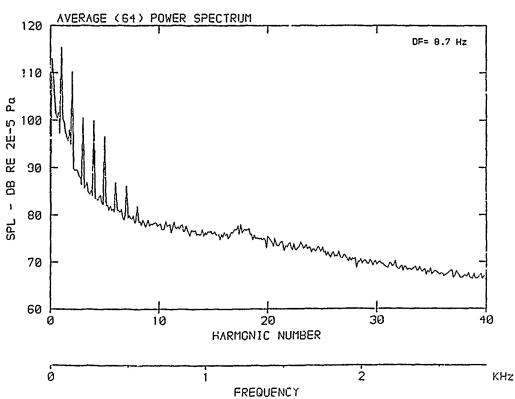




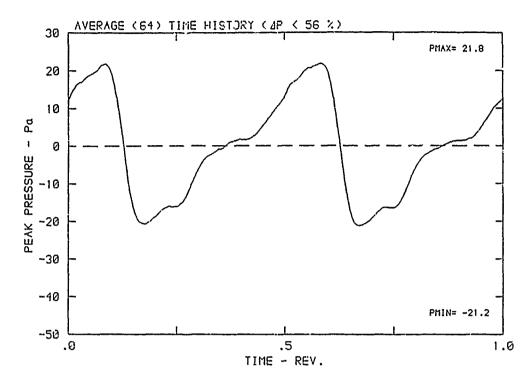
 β : 29.0° MH: .6883 n: 2100 rpm v/u: .302 ϕ : .0° T: 286.0 K

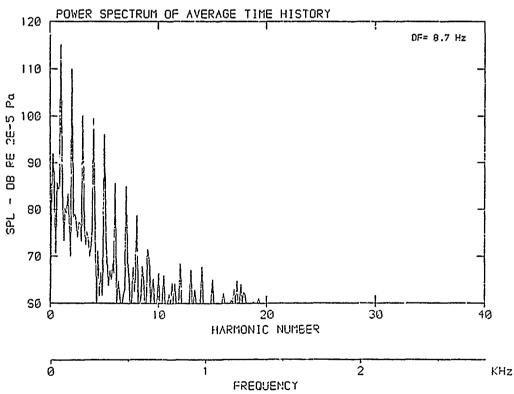


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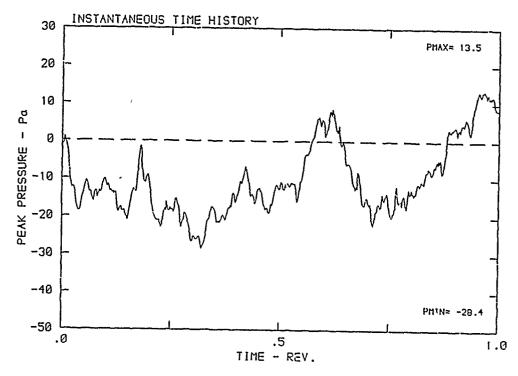


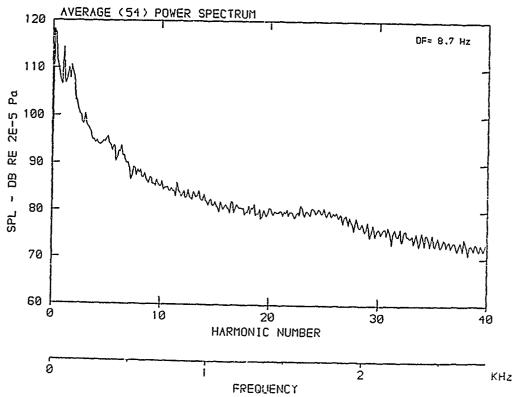
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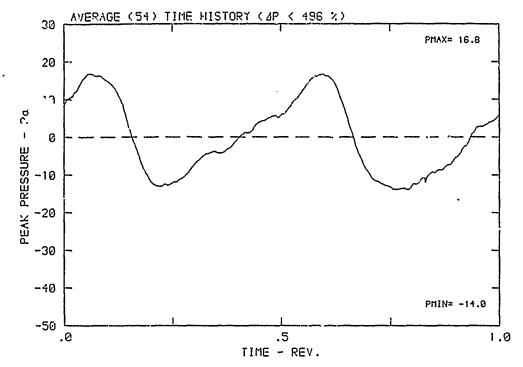


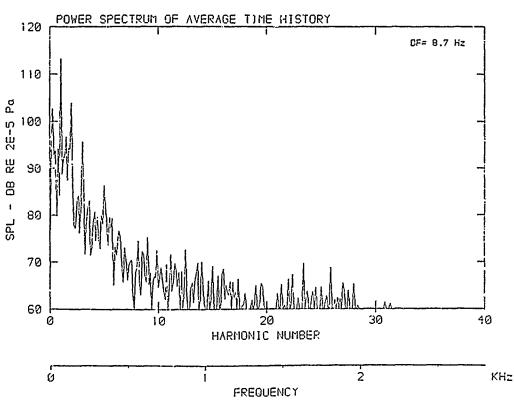
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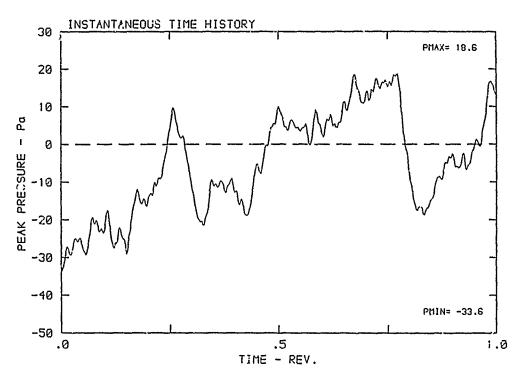


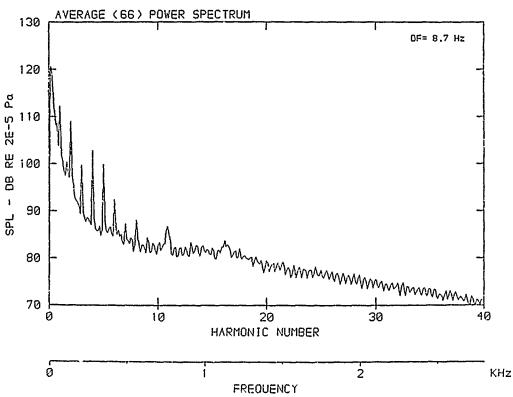
 β : 29.0° MH: .6883 n: 2100 rpm v/u: .302 ϕ : .0° T: 286.0 K



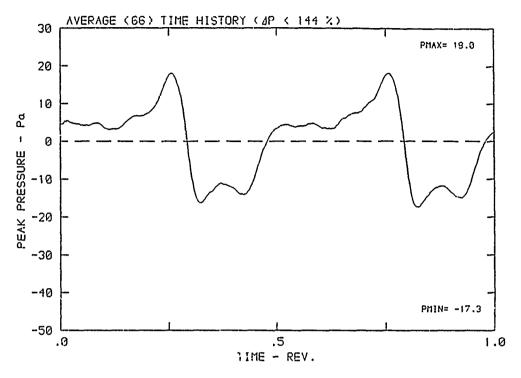


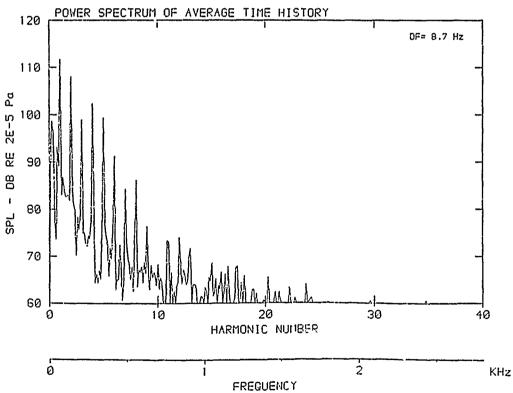
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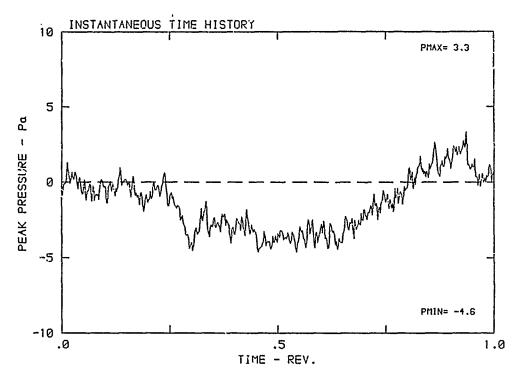


 $\beta\colon\,29.0^{o}$ MH: .6883 n: 2100 rpm v/u: .302 $\varphi\colon\,.0^{o}$ T: 286.0 K

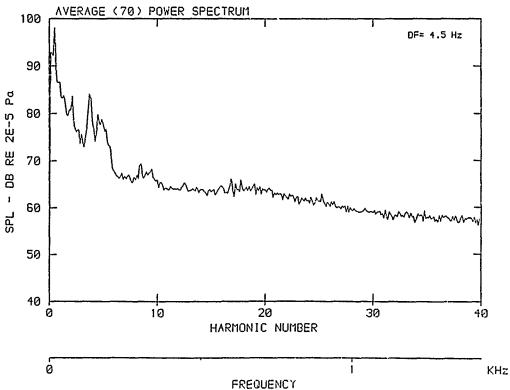




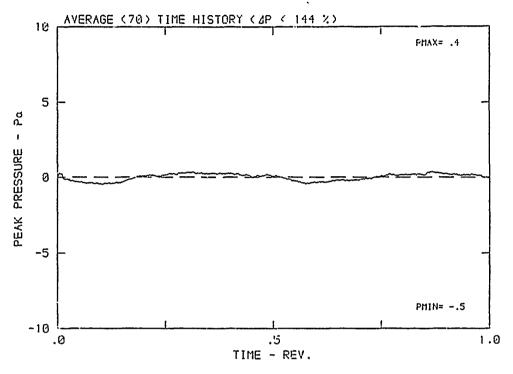
 $\beta\colon\,29.0^{\circ}\,$ MH: .3675 n: 1069 rpm v/u: .451 $\,\varphi\colon\,.0^{\circ}\,$ T: 286.8 K

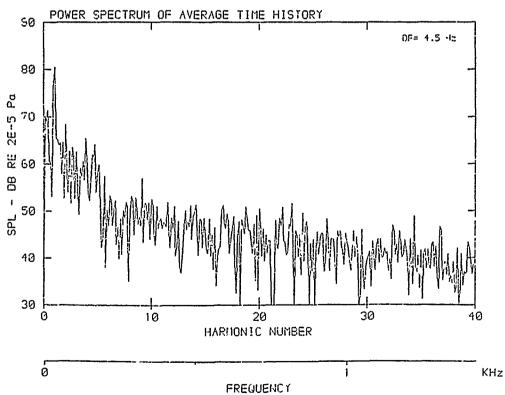


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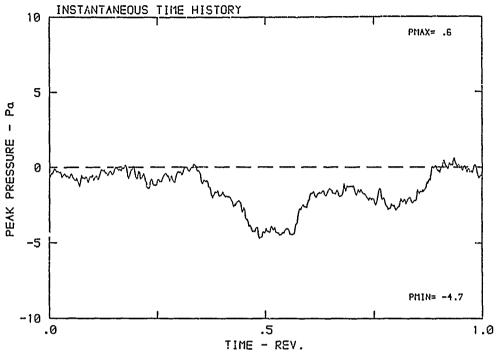


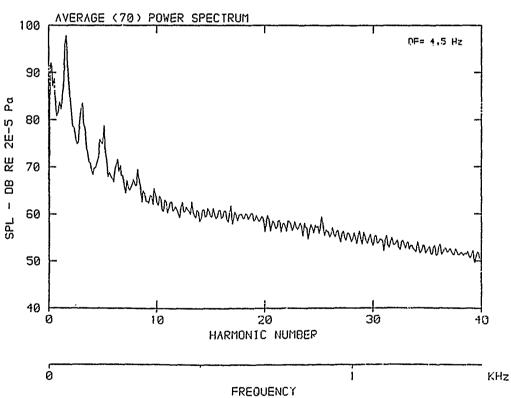
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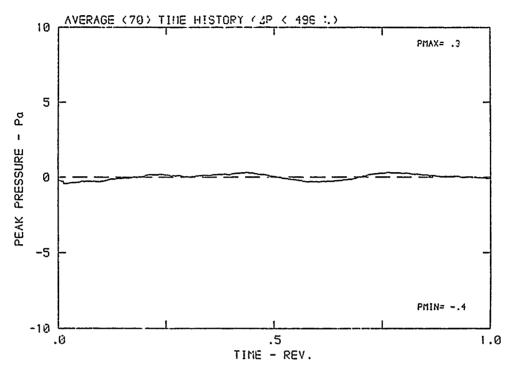


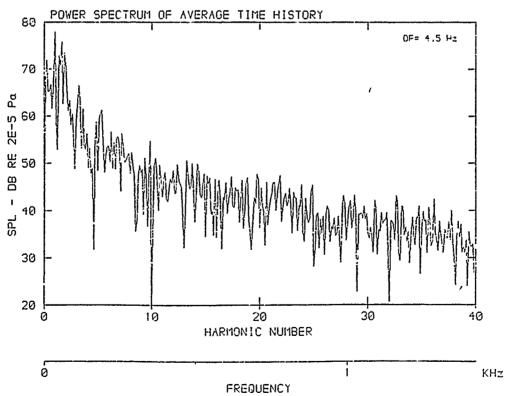
 β : 29.0° MH: .3675 n: 1069 rpm $\mbox{ v/u}$: .451 $\mbox{ }\phi$: .0° T: 286.8 K



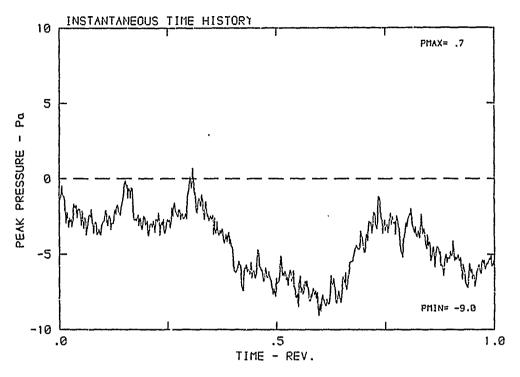


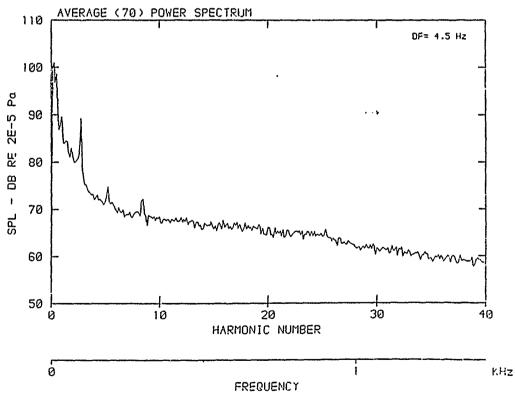
 $\beta\colon\,29.0^{\circ}\,$ MH: .3675 n: 1069 rpm $\,$ v/u: .451 $\,$ $\varphi\colon\,.0^{\circ}\,$ T: 286.8 K



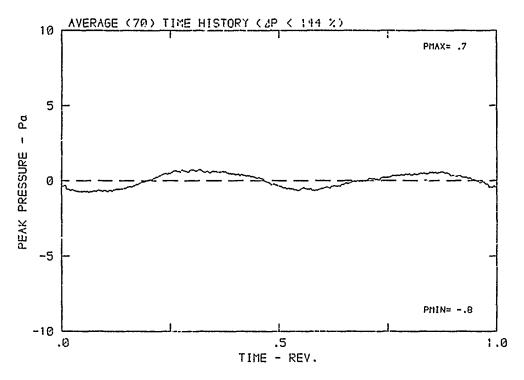


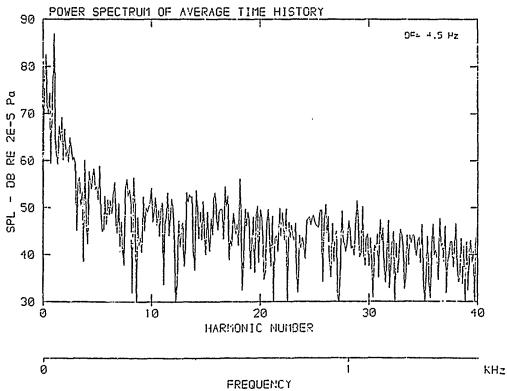
 β : 29.0° MH: .3675 n: 1069 rpm v/u: .451 ϕ : .0° T: 286.8 K



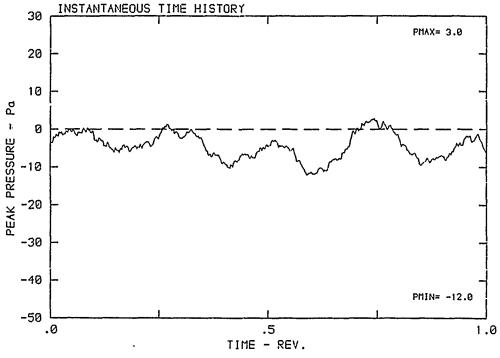


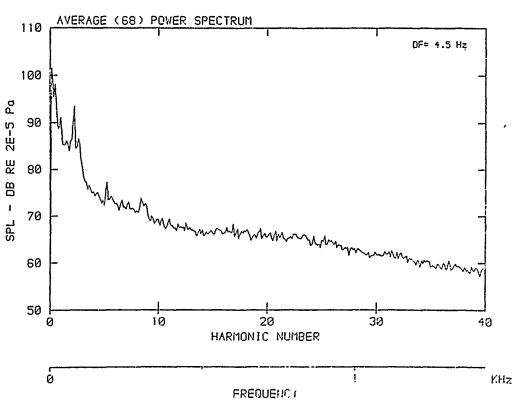
 $\beta\colon\,29.\dot{0}^{\scriptscriptstyle 0}\,$ MH: .3675 n: 1069 rpm v/u: .451 $\varphi\colon\,.0^{\scriptscriptstyle 0}\,$ T: 286.8 K





 β : 29.0° NH: .3675 n: 1069 rpm v/u: .451 ϕ : .0° T: 286.8 K

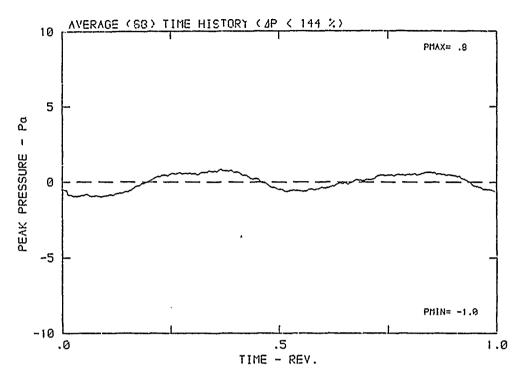


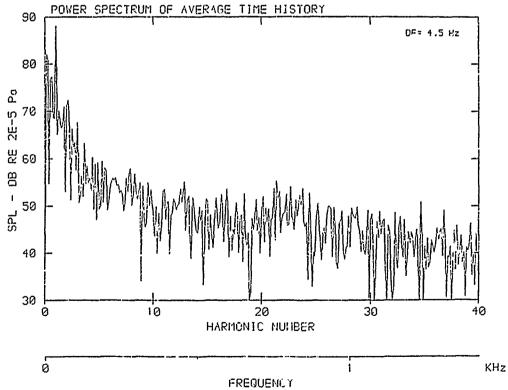


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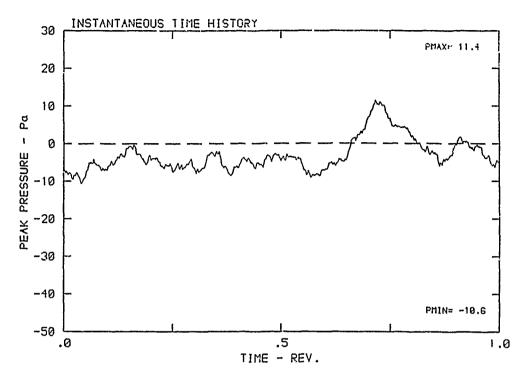
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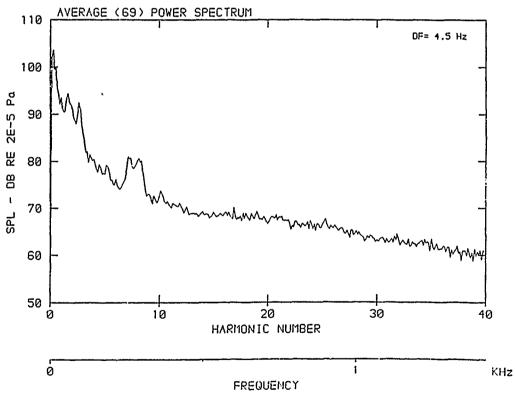
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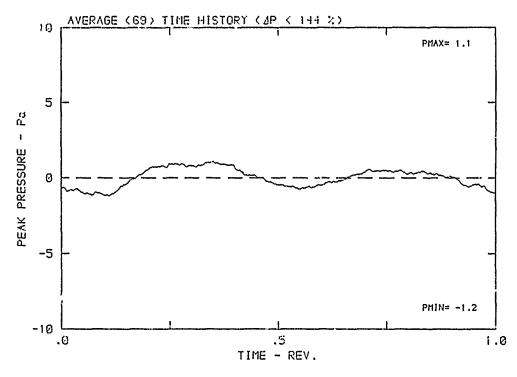


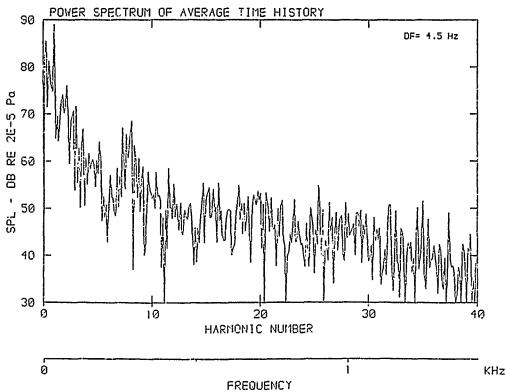
 β : 29.0° MH: .3675 n: 1069 rpm V/U: .451 ϕ . .0° T: 286.8 K



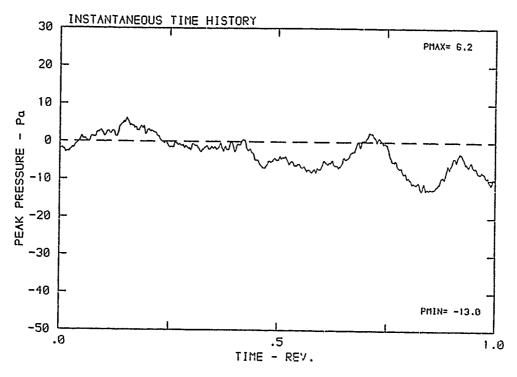


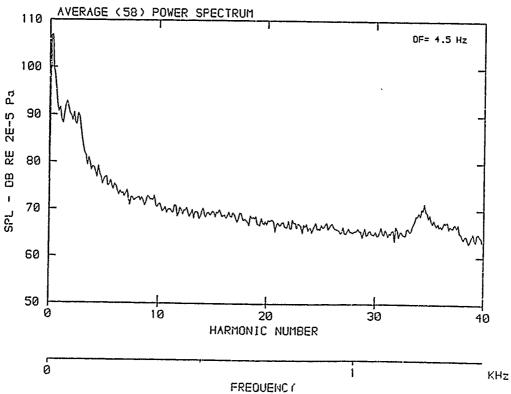
 β : 29.0° MH: .3675 n: 1069 rpm v/u: .451 ϕ : .0° T: 286.8 K



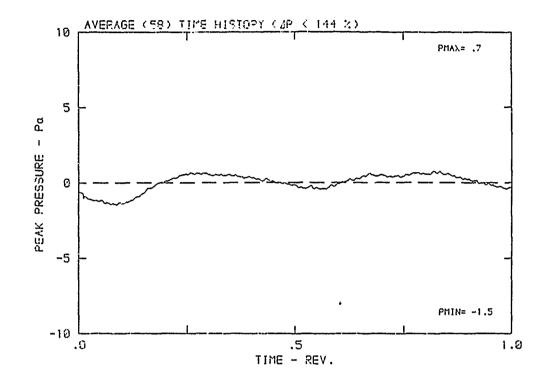


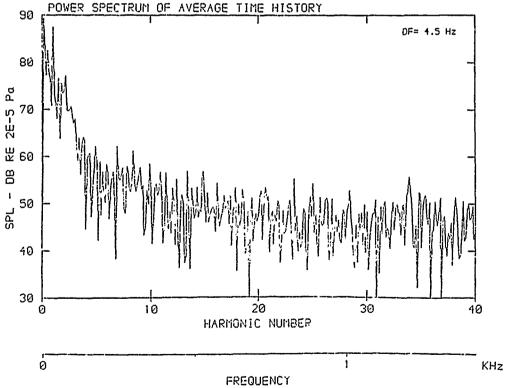
 $\beta\colon 29.0^{o}$ MH: .3675 n: 1069 rpm v/u: .451 $\varphi\colon .0^{o}$ T: 286.8 K



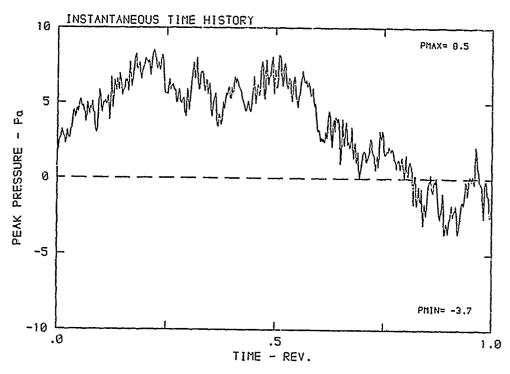


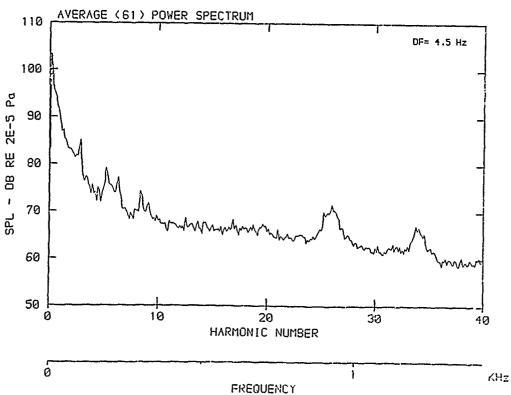
 $\beta\colon\thinspace 29.0^{o}$ MH: .3675 n: 1069 rpm v/u: .451 $\varphi\colon\:.0^{o}$ T: 286.8 K



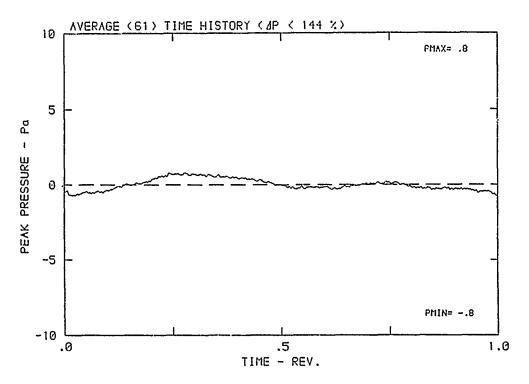


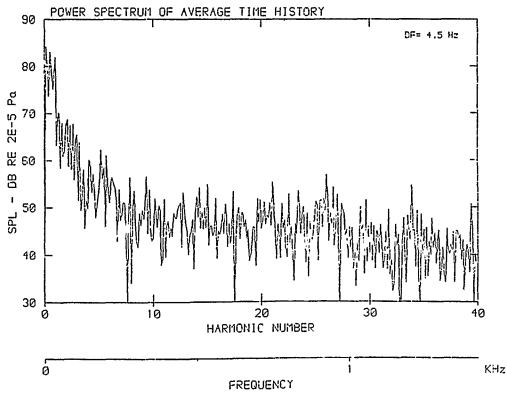
 β : 29.0° MH: .3675 n: 1069 rpm $\mbox{ v/u}$: .451 $\mbox{ }\phi$: .0° $\mbox{ }\Gamma$: 286.8 K



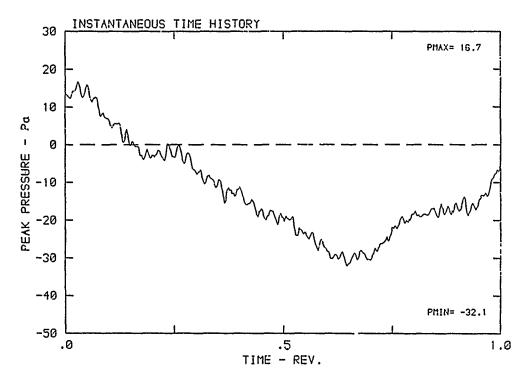


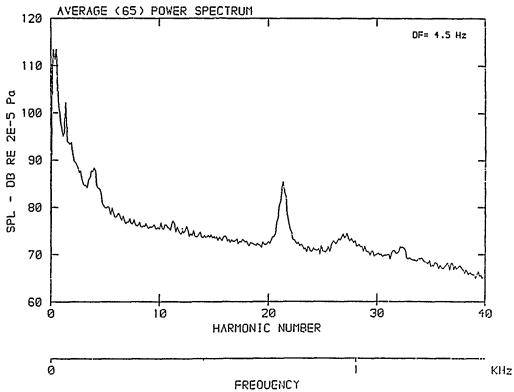
 $\beta\colon\,29.0^{\circ}\,$ MH: .3675 n: 1069 rpm v/u: .451 $\,\varphi\colon\,.0^{\circ}\,$ T: 286.8 K





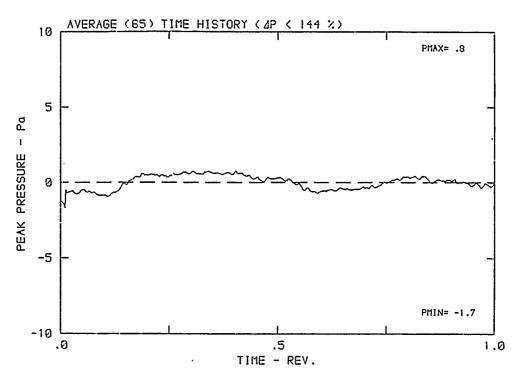
β: 29.0° MH: .3675 n: 1069 rpm v/u: .451 φ: .0° 7: 286.8 K

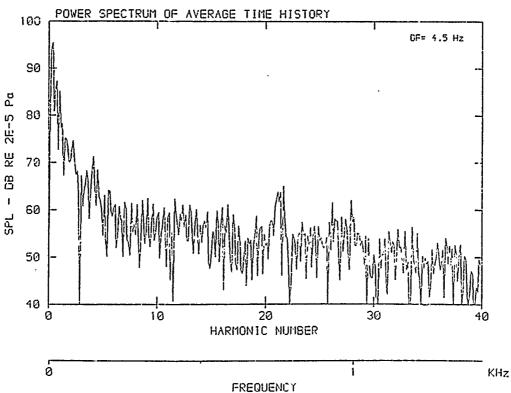




needsteer versteersteers besteers besteers versteer besteer besteer besteer besteer versteer

 $\beta\colon\,29.0^{\circ}\,$ MH: .3675 n: 1069 rpm $\,$ v/u: .451 $\,$ $\!$ $\!$ $\!$ $\!$ $\!$ 1: 286.8 K





6. Propeller Rotational Harmonic Noise- and Overall Noise Levels

From all spectra of averaged time-histories the harmonic pressure levels are determined under the presupposition of a 10 dB signal-to-noise ratio, and are submitted to the A-weighting function. Both linear and A-weighted harmonic levels as well as the respective overall pressure levels (calculated from the energy sum of harmonic levels) are listed in the following tables.

MICROPHONE: MP 1 (PITCH ANGLE: 20.8 DEG)

	+				-	DATA-1	POINT /	RUN			 		
		AN-	-1 /	63		AN.	-2 /	64	Į AN	-3 /	65		
HN		F	SPL	SPLA	 -	F	SPL	SPLA	F	SPL	SPLA		
1	ij		101.3	75.1	İ	•	106.5	•	•	112.9	93.8		
2	!!	140.0	93.2	77.1	ļ			89.7	180.0	•	96.6		
•	\prod	210.0	91.9	,	-			•	•	•	101.0		
4	!!	280.0	84.5	75.9	ļ	•	98.3	91.7	•	•	102.7		
5	11	350.0	81.2	74.6	ļ	•	96.8		•	105.7			
6		420.0	•		ļ		89.0	85.8	•	99.2	96.0		
7	11	490.0	70.7	•	ļ		82.8		•	100.9	99.0		
8	!!	560.0	64.2	•	!	•	82.7	80.8	•	•	100.2		
9 10		630.0 700.0	0.0		ŀ	•	79.6		810.0	•	92.0		
. 11	11	770.0	0.0	•	•	800.0	76.1	75.3 70.4	•	94.6			
		840.0	0.0	•	i	880.0 960.0	71.2		990.0	•			
13		910.0	0.0	•	•	•	65.1		1080.0 1170.0				
•	H	980.0	0.0	•	•	1120.0	49.8	•	1260.0		82.3 83.7		
•	• •	1050.0	0.0	•	•	1200.0	•		1350.0	•			
•	16 1120.0 0.0 0.0 1280.0 0.0 0.0 1440.0 73.2 74.2												
1 11 1													
•		1330.0	0.0	•	•	1520.0	•		1710.0	•	0.0 0.0		
•		1400.0	0.0		•	1600.0	•	•	1800.0	•	0.0		
•		1470.0	0.0	•	•	1680.0		•	1890.0	•	0.0		
22		1540.0	0.0	•	•	1760.0	•		1980.0		0.0		
•		1610.0	0.0		•	1840.0	•	•	2070.0	•	0.0		
24		1680.0	0.0		•	1920.0			2160.0	•	0.0		
25		1750.0	0.0		•	2000.0		•	2250.0	•	0.0		
26		1820.0	0.0		•	2080.0	•		2340.0		0.0		
27		1890.0	0.0	•	•	2160.0	•		2430.0	•	0.0		
28	Ħ	1960.0	0.0			2240.0			2520.0	•	0.0		
29	Ħ	2030.0	0.0	0.0	i	2320.0	•		2610.0	•	0.0		
[30	Ħ	2100.0	0.0	0.0	Ĺ	2400.0	0.0		2700.0		0.0		
31	П	2170.0	0.0	0.0	1	2480.0	0.0		2790.0	0.0	•		
32	П	2240.0	0.0	0.0	L	2560.0	0.0		2880.0	•	•		
33	П	2310.0	0.0	0.0		2640.0	0.0	0.0	2970.0		•		
34	П	2380.0	0.0	0.0		2720.0	0.0	0.0	3060.0	0.0	•		
35		2450.0	0.0	0.0		2800.0	0.0	0.0	3150.0	0.0	•		
36 2520.0 0.0 0.0 2880.0 0.0 0.0 3240.0 0.0													
37 2590.0 0.0 0.0 12960.0 0.0 0.0 13330.0 0.0 0.0													
38 2660.0 0.0 0.0 3040.0 0.0 0.0 3420.0 0.0 0.0													
•		2730.0	0.0		•	3120.0	0.0		3510.0		0.0		
40	Ш	2800.0	0.0	0.0	I	3200.0		•	3600.0	•			
+			 	h	1			-	+ +	•	. ,		
(0A:	SPL	102					98.3	=	•	109.4		
÷			 		-	+			+	+			

- FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

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MICROPHONE: MP 2 (PITCH ANGLE: 20.8 DEG)

	+				DATA-1	POINT /	RUN	- •			+			
4	AN-	-1 /	63 +		AN-	-2 /	64		AN:	-3 /	65 +			
HN	F	SPL	SPLA		F	SPL	SPLA		F	SPL	SPLA			
1	• •	105.0	78.8			107.9	85.4			113.5	94.4			
2	• •	102.2	86.1	ļ	160.0	107.9	94.5		•	•	105.5			
3	210.0	97.5	86.6	Ц	240.0	104.8	96.2			110.8	102.2			
4	280.0	94.2	85.6	H	320.0	100.8	94.2		•	1112.7	107.9			
5	350.0	89.2	82.6	Ш	400.0	99.1	94.3		•	1111.1	107.9			
6 7	420.0	83.2	78.4		480.0	100.3	97.1		•	111.9	108.7			
8	490.0 560.0	78.7 77.0	75.5 73.8	Н	560.0 640.0	96.4	93.2 91.0		630.0 720.0	110.3	108.4			
0	630.0	0.0	0.0	Н	720.0	92.9 88.2	87.4		810.0	106.3 106.6	105.5 105.8			
10	700.0	0.0	0.0	Н	800.0	87.6	86.8		900.0	106.8	106.8			
111	770.0	0.0	0.0	H	880.0	86.4	85.6		990.0	104.0	104.0			
1 12	840.0	0.0	0.0	H	960.0	81.1	81.1		1080.0	101.2	101.2			
13	910.0	0.0	0.0	ii	1040.0	77.8	77.8		1170.0	101.5	102.1			
j 14	14 980.0 0.0 0.0 1120.0 74.6 74.6 1260.0 99.5 100.1													
15	1050.0	0.0	0.0	İ	1200.0	72.3	72.9		1350.0	99.0	99.6			
16	11120.0	0.0	0.0	H	1280.0	70.9	71.5		1440.0	95.8	96.8			
17	1190.0	0.0	0.0	H	1360.0	67.6	68.2		1530.0	94.1	95.1			
18	1260.0	0.0	0.0	П	1440.0	58.2	59.2	П	1620.0	93.4	94.4			
19	1330.0	0.0	0.0	П	1520.0	0.0	0.0	l	1710.0	90.1	91.1			
20	1400.0	0.0	0.0		1600.0	0.0	0.0		1800.0	87.3	88.5			
21	1470.0	0.0	0.0	Ц	1680.0	0.0	0.0		1890.0	86.5	87.7			
22	1540.0	0.0	0.0		1760.0	0.0	0.0		1980.0	86.9	88.1			
23	1610.0	0.0	0.0		1840.0	0.0	0.0		2070.0	83.4	84.6			
24	1680.0	0.0	0.0		1920.0	0.0	0.0		2160.0	81.3	82.5			
25	1750.0	0.0	0.0		2000.0	0.0	0.0		2250.0	80.1	81.4			
	1820.0 1890.0	0.0	0.0 0.0		2080.0 2160.0	0.0	0.0		2340.0	78.7	80.0			
•	1890.0 1960.0	0.0	•	٠.	2240.0	0.0	0.0		2430.0 2520.0	76.4 74.7	77.7 76.0			
•] 2030.0	0.0	•	, ,	2320.0	0.0	0.0	1	2610.0	75.0	76.0 76.3			
•	2100.0	0.0	•	٠.	2400.0	0.0	, ,		2700.0	72.2	73.5			
•	2170.0	•	•		2480.0	•			2790.0					
	2240.0	1	:		2560.0				2880.0					
- I	2310.0	<u>.</u>	•		2640.0				2970.0					
•	2380.0	0.0		٠.	2720.0		•		3060.0	•				
35	2450.0	0.0	•	ij	2800.0	0.0			3150.0					
•	2520.0	0.0			2880.0				3240.0					
	2590.0	0.0			2960.0		0.0	ĺ	3330.0	0.0	j 0.0 j			
	2660.0		0.0	П	3040.0	0.0	0.0		3420.0	0.0	0.0			
39	[2730.0	0.0	0.0	П	3120.0	0.0	0.0	l	3510.0	0.0	0.0			
40	2800.0	0.0	0.0		3200.0	0.0	0.0	ı	3600.0	0.0	0.0			
-	++	•	•	•				•		•	•			
 	DASPL	170/.0	92.1 		 	TTT . 7	103.0	 	 	122.0	11/.5			
	, 	,		• 1		,		• 7						

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 3 (PITCH ANGLE: 20.8 DEG)

	-	 	- * * • • • • • •		٠.	DATA-1	POINT /	RUN	•			 		
+	.4	AN-	-1 /	63		AN-	-2 /	64		AN	-3 /	65		
HN	į	F	SPL	SPLA		F	SPL	SPLA		F	SPL	SPĹA		
1 1	İ	•	106.7	80.5		•	110.4	87.9		90.0	115.3	96.2		
2	ŀ	140.0 210.0	103.5 .98.2	87.4 87.3		•	108.2 106.8	94.8 98.2			•	103.2 104.9		
3	1	280.0	94.7	86.1		9	104.6				113.3	104.9		
5	-	350.0	88.2	81.6	1	•	104.0			450.0		110.2		
6	1	420.0	88.4	83.6		•	100.9	97.7		•	110.1	106.9		
7	i	490.0	84.1	80.9	i	•	96.6	: :			•	109.2		
i 8	i	560.0	76.8	73.6		640.0	96.7	:			•	109.5		
9	i	630.0	0.0	0.0		720.0	94.4	93.6		•	109.0	108.2		
10	i	700.0	0.0	0.0		800.0	91.3	90.5		•	108.1	108.1		
11	i	770.0	0.0	0.0	i	880.0	88.0	87.2		•	107.5	107.5		
12	i	840.0	0.0	0.0	ĺ	960.0	86.7			•	105.8	105.8		
13	i	910.0	0.0		İ	1040.0	84.1			•	103.3	103.9		
14	14 980.0 0.0 0.0 1120.0 79.9 79.9 1260.0 105.3 105.9													
15	15 1050.0 0.0 0.0 1200.0 78.2 78.8 1350.0 103.9 104.5													
16	16 1120.0 0.0 0.0 1280.0 78.6 79.2 1440.0 102.3 103.3													
17	İ	1190.0	0.0	0.0	ĺ	1360.0	75.3	75.9		1530.0	101.6	102.6		
18	1	1260.0	0.0	0.0		1440.0	73.1	74.1		1620.0	101.8	102.8		
19		1330.0	0.0	0.0		1520.0	71.9	72.9		1710.0	98.9	99.9		
20	1	1400.0	0.0	0.0	ļ	1600.0	71.0	72.0	ļ	1800.0	95.8	97.0		
21		1470.0	0.0	0.0	ı	1680.0	69.1	70.1		1890.0	95.2	96.4		
22	•	1540.0	0.0		•	1760.0	65.7			1980.0	91.6	92.8		
23	•	1610.0	0.0	,	•	1840.0	63.7	64.9		2070.0	84.8	86.0		
24	-	1680.0	0.0	0.0	l	1920.0	64.9	•		2160.0	78.9	80.1		
25	ļ	1750.0	0.0	0.0		2000.0	64.1			2250.0	77.7	79.0		
26		1820.0	0.0	0.0	ļ	2080.0	61.0	62.2		2340.0	82.8	84.1		
27	ļ	1890.0	0.0	0.0	ļ	2160.0	0.0	0.0		2430.0	82.9	84.2		
28		1960.0	0.0.	•		2240.0	0.0	0.0		2520.0	85.9	87.2		
29	ļ	2030.0	0.0	0.0		2320.0	0.0	0.0		2610.0	86.9	88.2		
30	ŀ	2100.0	0.0	0.0		2400.0	0.0	0.0		2700.0	86.6	87.9		
31	•	[2170.0	0.0		-	2480.0	0.0	•		2790.0	86.0	87.3		
32	•	2240.0 2310.0	0.0	0.0	•	2560.0 2640.0	0.0	•		2880.0	85.7	86.9		
1 34	1	2310.0	0.0 0.0	0.0	•	2720.0	0.0 0.0	:		2970.0 3060.0	84.0 81.6	85.2 82.8		
35	1	2450.0	0.0	0.0	•	2800.0	0.0	:		3150.0	77.7	02.0 78.9		
36	•	2520.0	0.0	•	•	2880.0	0.0	: :		3240.0	74.8	76.9 76.0		
37	•	2590.0	0.0		•	•	0.0	•		3330.0	69.8	70.0 71.0		
38														
39	•	2730.0	0.0		•	3120.0	•	•		•	0.0	0.0		
•	•	2800.0	0.0	•	•	3200.0	·			3600.0	•	0.0		
+	+			 	<u> </u>	•	•	•			•	(
+	_		+	+	+	+	+	+		t	+	+ -		
ļ	0	ASPL	109.0	93.3	•			106.2				119.4		
+	_		+	h	۰	t	t	+			+	f		

F - FREQUENCY HZ
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA
SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 4 (PITCH ANGLE: 20.8 DEG)

	-	+ 			_	DATA-1	POINT /	RUN	• •			+
+	. +	AN-	-1 /			•	-2 /	•		•	-3 /	65
HN	<u> </u>	F 	SPL	SPLA	:	•	SPL			•	SPL	SPLA
1	ļ	•	108.3	82.1	ļ	•	112.9	90.4		•	116.9	97.8
2	!	•	104.3	88.2	ļ	160.0	108.4	95.0		•	•	104.0
3	ļ	210.0	98.2	87.3	ļ	240.0	108.7	100.1		•	•	108.3
4	ļ	280.0	95.7	87.1	ļ	320.0	106.1	99.5		•	•	110.1
5	-	350.0	92.7	86.1	ļ	400.0	102.4	97.6		•	•	110.9
6	1	420.0	89.0	84.2	ļ	480.0	101.4	98.2		•	•	109.2
1 7	ļ	490.0	82.1	78.9	ļ	560.0	100.3	97.1	1	•		111.7
8	!	560.0	80.5	77.3	ļ	640.0	98.3	96.4		•		110.3
9	1	630.0	78.1	76.2	ŀ	720.0	93.9	93.1	ı	•	•	110.0
10	ļ	700.0 770.0	67.8 68.1	65.9	ļ	800.0 880.0	92.8 90.7	92.0 89.9		900.0 990.0	•	109.9
11	[•	63.3	67.3	ļ	960.0	86.2	89.9 86.2		•	•	108.2 107.4
12	-	840.0	•	0.0	1	1040.0	85.9	85.2 85.9		1170.0	•	107.5
13	-	910.0 980.0	0.0 0.0	0.0	•	1120.0	83.3	83.3		1260.0	•	107.5
1 15	-	1050.0	0.0	0.0	•	1200.0	79.7	83.3 80.3	l	1350.0	•	104.0
16	ł	1120.0	0.0	0.0	-	1280.0	75.1	00.3 75.7		1440.0	102.5	103.5
17	-	1120.0	0.0	0.0	•	1360.0	75.4	76.0		1530.0	99.9	100.9
18	ł	1260.0	0.0	0.0	i	1440.0	72.5	73.5		1620.0	98.7	99.7
19	l	1330.0	0.0	0.0	ŀ	1520.0	68.1	69.1		1710.0	98.1	99.1
20	i	1400.0	0.0	0.0	i	1600.0	66.8	67.8		1800.0	96.7	97.9
21	-	1470.0	0.0	0.0	i	1680.0	64.9	65.9		1890.0	94.0	95.2
22		1540.0	0.0	0.0	ľ	1760.0	64.5	65.5		1980.0	92.6	93.8
		1610.0	0.0	0.0	i	1840.0	61.1	62.3		2070.0	91.2	92.4
24	-	1680.0	0.0	0.0	•	1920.0	0.0	0.0		2160.0	89.6	90.8
•	•	1750.0	0.0	0.0	ì	2000.0	0.0	0.0		2250.0	88.2	89.5
26		1820.0	0.0	0.0	i	2080.0	0.0	0.0		2340.0	87.3	88.6
•	-	1890.0	0.0	0.0	•	2160.0	0.0	0.0		2430.0	86.1	87.4
		1960.0	0.0			2240.0	0.0	0.0		2520.0	85.2	86.5
		2030.0	0.0	•	İ	2320.0	0.0	,		2610.0	84.7	86.0
•	-	2100.0	0.0		•	2400.0	0.0			2700.0	82.8	84.1
		2170.0		0.0	İ	2480.0	0.0	0.0	ľ	2790.0	81.4	82.7
		2240.0	0.0		-	2560.0	:			2880.0	81.3	i i
33	Ì	2310.0	0.0	0.0	ĺ	2640.0	0.0	0.0	١.	2970.0	79.0	80.2
34	1	2380.0	0.0	0.0		2720.0	0.0	0.0		3060.0	77.3	78.5
35	1	2450.0	0.0	0.0	İ	2800.0	0.0	0.0		3150.0	78.1	79.3
•	1.	2520.0	0.0		•	2880.0				3240.0		
•		2590.0	0.0		•	2960.0	•			3330.0		
38	•	•	•			3040.0				3420.0	•	•
		2730.0				3120.0						
•	•	2800.0	•		•	3200.0	•			•	5	•
+	+-	-	-			+						
+	٠		-			t						
!	O.	ASPL	110.3	94.3	ļ	 	116.4	107.1		!	[124.6]	120.7
+			 		+-	+		r	_	+	r	+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 5 (PITCH ANGLE: 20.8 DEG)

	+			DATA-1	POINT /	RUN			
+	AN	-1 /	63	AN	-2 /	64	AN	-3 /	65 +
HN	F	SPL	SPLA	F	SPL	SPLA	 F	SPL	SPLA
1	• •	109.8	83.6	•	114.9	•	, ,	118.5	99.4
2		105.3	89.2		109.3		180.0	•	103.5
3	• •	96.4	•		106.7		270.0	•	107.7
4		95.8			109.0		, ,	117.0	•
5 1 6	• •	94.8	88.2		105.1		450.0	•	106.5
0		84.7	79.9	•	98.1		540.0	•	109.3
1 8		81.5	78.3 76.0	•	98.7 97.9		630.0	•	1111.9
0	560.0 630.0	75.7	70.0 73.8	720.0	•	90.0	720.0 810.0	•	108.1 108.2
10	700.0	71.5	69.6	•	89.6	•		107.3	100.2
111	770.0	60.9	60.1		87.5		•	•	107.5
12	840.0	0.0	0.0		87.9		1080.0		,
13	910.0	0.0		1040.0	•	•		103.7	104.3
14	980.0	0.0		1120.0				103.6	104.2
•	1050.0	0.0		1200.0	•	•	•	100.8	•
•	1120.0	•		1280.0	•				100.2
•	11190.0	0.0	•	1360.C	•			98.1	
•	11260.0	0.0		1440.0				95.7	
19	1330.0	0.0	0.0	1520.0	0.0	0.0	1710.0	93.4	94.4
20	1400.0	0.0	0.0	1600.0	0.0	0.0	1800.0	93.5	94.7
21	1470.0	0.0	0.0	1680.0	0.0	0.0	1890.0	90.3	91.5
	1540.0	0.0	0.0	1760.0	•	•	1980.0	89.2	90.4
	1610.0	0.0		1840.0	•	•	2070.0	89.8	
•	1680.0	0.0		1920.0	•			85.4	•
•	1750.0	0.0	•	2000.0	•		2250.0	•	
	1820.0	0.0		2080.0	•	•	2340.0		•
	1890.0	0.0		2160.0	•	, .	2430.0	79.8	81.1
•	1960.0	0.0		2240.0	•		2520.0	81.6	•
•	2030.0 2100.0	0.0	•	2320.0 2400.0	•		2610.0 2700.0	76.1	•
30	2100.0 2170.0	0.0	: :	2480.0	0.0		2790.0	77.7	78.1 79.0
7	2170.0 2240.0	0.0	1 1	2560.0	0.0	•	2880.0	71.4	79.0
33	2310.0	0.0		2640.0	0.0	•	2970.0	73.3	
•	2380.0	0.0	•	2720.0	0.0	•	3060.0	74.6	75.8
:	2450.0	0.0	:	2800.0	0.0	•	3150.0	65.0	66.2
36	2520.0	0.0	: :	2880.0	0.0	: :	3240.0	0.0	0.0
37	2590.0	0.0	: :	2960.0	0.0		3330.0	0.0	0.0
38	2660.0	0.0	: :	3040.0	0.0	:	1	0.0	0.0
39	2730.0	0.0	•	3120.0	0.0		3510.0	0.0	0.0
40	2800.0	0.0		3200.0	•	0.0	3600.0	0.0	0.0
+		=		+			 	+	
+	DASPL		94.5 			107.4			119.6

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 6 (PITCH ANGLE: 20.8 DEG)

	+			DATA-I	POINT /	RUN			
+	 AN-	-1 /	63	AN	-2 /	64	AN	-3 /	65
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
	70.0	,	27.0		50.9	•	•	•	
•	140.0	0.0		160.0	•	0.0		•	
•	210.0	0.0		240.0		0.0		•	
: '	280.0 350.0	0.0		320.0 400.0	•	0.0 0.0	360.0 450.0	•	0.0
:	350.0 420.0	0.0	•	480.0			540.0		
•	420.0	0.0	•	560.0		, ,	630.0	•	
: :	560.0	0.0	•	640.0		0.0	•		
•	630.0	0.0		720.0		0.0	•	•	
•	700.0	0.0	•	•		•	900.0		
111	770.0	0.0	•	880.0			990.0		
•	840.0	0.0		960.0			1080.0		0.0
•	910.0	0.0		1040.0		•	1170.0	,	
14	980.0	0.0	0.0	1120.0	0.0	0.0	1260.0	0.0	0.0
15	1050.0	0.0	0.0	1200.0	0.0	0.0	1350.0	0.0	0.0
	1120.0	0.0	0.0	1280.0	•	0.0	1440.0	•	
•	1190.0	0.0		1360.0		•	1530.0	•	0.0
•	1260.0	•		1440.0		•	1620.0	•	0.0
•	1330.0	0.0	•	1520.0	•		1710.0	•	
•	1400.0	0.0	•	1600.0	•	•	1800.0	•	
•	1470.0	0.0	•	1680.0			1890.0		
•	1540.0	0.0	•	1760.0			1980.0		
•	11610.0	0.0	•	1840.0	•	•	2070.0	•	0.0
•	1680.0	0.0	•	1920.0			2160.0 2250.0		
•	1750.0 1820.0	0.0 0.0	•	2000.0 2080.0			2340.0		
•	1890.0	0.0		2160.0	•		2430.0	•	
•	1960.0	•	•	2240.0	•	•	2520.0	•	
•	2030.0	•		2320.0			2610.0		
	2100.0		•	2400.0	•		2700.0	•	
•	2170.0	•	•	2480.0	•		2790.0	•	, ,
	2240.0		,	2560.0		:	2880.0	•	
	2310.0	:	•	2640.0	•		2970.0		
	2380.0	:	:	2720.0	0.0	0.0	3060.0	<u> </u>	
•	2450.0	•	•	2800.0	•		3150.0		•
•	2520.0	•	•	2880.0		•	3240.0	•	
	2590.0			2960.0	•		3330.0	•	
	2660.0			3040.0	,		3420.0		
•	2730.0	•	•	•	•		•	,	
•	2800.0	-	-		-	•	•	•	
+	•	•	-		•		•	•	
1 (•	•		•		•	•	
-									

F - FREQUENCY HZ
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA
SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 7 (PITCH ANGLE: 20.8 DEG)

DATA-POINT / RUN AN-1 / 63 AN-2 / 64 AN-3 / 65											
] AN-	-1 /	63	AN-	-2 /	64	AN	-3 /	65 +		
HN I	F	SPL	SPLA	j F	SPL	SPLA	F	SPL	SPLA		
1 1	70.0	107.7	81.5	80.0	113.0	90.5		118.3	99.2		
2	140.0	95.7	79.6	160.0	101.3	87.9	•	111.3	100.4		
3	210.0	88.4	77.5	240.0	100.4	91.8	270.0	103.4	94.8		
4	280.0	80.2	71.6	320.0	93.5	86.9	360.0	103.3	98.5		
5	350.0	0.0	0.0	400.0	89.9	85.1	450.0	92.5	89.3		
6	420.0	0.0	0.0	480.0	82.1	78.9	540.0	94.5	91.3		
7	490.0	0.0	0.0	560.0	0.0	0.0	630.0	92.9	91.0		
8	560.0	0.0	0.0	640.0	0.0	0.0	720.0	86.9	86.1		
9	630.0	0.0	0.0	720.0	0.0	0.0	810.0	88.2	87.4		
10	700.0	0.0	0.0	800.0	0.0	0.0	900.0	76.3	76.3		
11	770.0	0.0	0.0	880.0	0.0	0.0	990.0	0.0	0.0		
12	840.0	0.0	0.0	960.0	0.0	0.0	1080.0	0.0	0.0		
13	910.0	0.0	0.0	1040.0	0.0	0.0	1170.0	0.0	0.0		
14	980.0	0.0	0.0	1120.0	0.0	0.0	1260.0	0.0	0.0		
: :	1050.0	0.0	0.0	1200.0	0.0	0.0	1350.0	0.0	0.0		
: :	1120.0	0.0	0.0	1280.0	0.0	0.0	1440.0	0.0	0.0		
	1190.0	0.0	0.0	1360.0	0.0	0.0	1530.0	0.0	0.0		
•	1260.0	0.0	0.0	1440.0	0.0	0.0	11620.0	0.0	0.0		
:	1330.0	0.0	0.0	1520.0	0.0	0.0	1710.0	0.0	0.0		
: :	1400.0	0.0	0.0	11600.0	0.0	0.0	1800.0	0.0	0.0		
	11470.0	0.0	0.0	11680.0	0.0		1890.0	0.0	0.0		
	1540.0	0.0	0.0	1760.0	0.0	: :	1980.0	0.0	0.0		
	11610.0	0.0	0.0	11840.0	0.0	0.0	2070.0	0.0	0.0		
: :	11680.0	0.0	0.0	1920.0	0.0	0.0	2160.0	0.0	0.0		
	1750.0 11820.0	0.0 0.0	0.0 0.0	2000.0 2080.0	0.0	0.0 0.0	2250.0 2340.0	0.0	0.0		
	1890.0	0.0		2160.0	0.0	0.0	2430.0	0.0	0.0		
	1960.0	0.0		2240.0	0.0	0.0	2520.0	0.0	0.0		
	2030.0	0.0	0.0	2320.0	0.0	0.0	2520.0	0.0	0.0		
	2100.0	0.0	0.0	2400.0	0.0	0.0	2700.0	0.0	0.0		
!!	2170.0	0.0	•	2480.0	0.0		2790.0	•	•		
	2240.0	0.0	•	2560.0	0.0		2880.0		•		
: :	2310.0	0.0		2640.0	*		2970.0				
	2380.0	0.0	•	2720.0	•	•	3060.0	•	•		
	2450.0	0.0	•	2800.0	•	•	3150.0	•			
	2520.0	0.0	•	2880.0	•	•	3240.0	•	•		
	2590.0	0.0	•	2960.0	•		3330.0	•	•		
]2660.0	•	•	3040.0	•		3420.0	•	•		
	2730.0		•	3120.0	•		3510.0	•	•		
	2800.0	•	•	3200.0	•	•	3600.0	•	•		
	•	•			•	•		•	•		
+		+	f		+	 	h-h	+	+		
1 0	ASPL	108.0	84.8	1	113.61	96.2	1	119.3	105.3		
+											

- FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2 PA SPLA - A-WEIGHTED SOUND PRESSURE LEV... DBA RE 2E-5 PA

MICROPHONE: MP 9 (PITCH ANGLE: 20.8 DEG)

	DATA-POINT / RUN AN-1 / 63 AN-2 / 64 AN-3 / 65												
4	 AN	-1 /	63 	AN	-2 /	64	AN	-3 /	65 				
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA				
1 1 2	70.0 140.0	105.4 103.7	79.2	80.0	110.6	88.1 92.7	90.0	1115.1	96.0 100.4				
3	210.0	94.6	83.7	240.0	105.7	97.1	•	111.0	108.4				
4	1 280.0	97.6	89.0	320.0	•	100.1	•	114.7	109.9				
5	350.0	93.6	87.0	400.0	100.7	95.9	450.0	111.7	108.5				
6	420.0	80.6	75.8	480.0	100.0	96.8	•	•	110.2				
7	490.0	80.2	77.0	560.0	99.6	96.4	630.0	111.2	109.3				
8	560.0	79.1	75.9	640.0	95.2	93.3	•	•	108.2				
9	630.0	77.7	75.8	720.0	91.6	90.8	•	•	110.2				
10	700.0	65.8	63.9	800.0	92.6	91.8	•	•	106.9				
111	770.0	0.0	0.0	880.0	88.9	88.1	•	•	105.9				
12	840.0	0.0	0.0	960.0	84.0		1080.0	•	106.6				
13 910.0 0.0 0.0 1040.0 85.4 85.4 1170.0 105.7 106.3 14 980.0 0.0 0.0 1120.0 81.1 81.1 1260.0 100.4 101.0													
14 980.0 0.0 0.0 1120.0 81.1 81.1 1260.0 100.4 101.0													
15 1050.0 0.0 0.0 1200.0 80.4 81.0 1350.0 102.8 103.4													
16 1120.0 0.0 0.0 1280.0 70.5 71.1 1440.0 101.4 102.4													
17	1190.0	0.0	0.0	1360.0	73.4	74.0	1530.0	97.3	98.3				
18	1260.0	0.0	0.0	1440.0	72.4	73.4	1620.0	97.6	98.6				
	1330.0	0.0	•	1520.0	66.5		1710.0	95.6	96.6				
	14000	0.0	•	1600.0	0.0		1800.0	93.6	94.8				
•	1470.0	0.0	•	1680.0	0.0	•	1890.0	93.9	95.1				
22	1540.0	0.0	•	1760.0	0.0	•	1980.0	90.3	91.5				
23	1610.0	0.0	•	1840.0	0.0		2070.0	89.8	91.0				
24	1680.0	0.0	•	1920.0	0.0	•	2160.0	90.8	92.0				
25	1750.0	0.0	•	2000.0	0.0	•	2250.0	82.8	81				
26	1820.0	0.0	0.0	2080.0	0.0		2340.0	85.2	86.5				
27	1890.0	0.0	0.0	2160.0	0.0	0.0	2430.0	84.8	86.1				
28	1960.0	0.0	0.0	2240.0	0.0	0.0	2520.0	80.2	81.5				
29	2030.0	0.0	0.0	2320.0	0.0	0.0	2610.0	81.6	82.9				
30	2100.0	0.0	0.0	2400.0	0.0	0.0		80.8	82.1				
1	2170.0 2240.0	0.0	:	2480.0 2560.0	0.0	0.0	2790.0 2880.0	79.0	80.3				
32	2240.0	0.0 0.0	0.0 0.0	2640.0	0.0	0.0 0.0	2970.0	80.6 77.4	81.8 78.6				
1 34	1 2380.0	0.0	0.0	2720.0	0.0	0.0	3060.0	77.4	76.0				
35	[2450.0	0.0	0.0	2800.0	0.0		3150.0	74.4	75.6				
36	2430.0	0.0	0.0	2880.0	0.0	0.0	3240.0	74.4	75.3				
37	2520.0	0.0	0.0	2960.0	0.0	0.0	3330.0	67.3	68.5				
37 2390.0 0.0 0.0 12900.0 0.0 13330.0 67.3 68.3 138 12660.0 0.0 0.0 13040.0 0.0 0.0 13420.0 71.1 72.3													
•	39 2730.0 0.0 0.0 3120.0 0.0 0.0 3510.0 71.9 73.1												
40	2800.0	0.0	•	3200.0	0.0		3600.0						
+	++	+		- -	+	+		+	+				
+		+	 	 	+	+	++	•					
	OASPL	108.4	93.7			105.7			119.4				
+		+	t	++	+	 		+	++				

- FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 1 (PITCH ANGLE: 20.8 DEG)

	+-					DATA-I	POINT /	RUN	-			
+	 	AN	-7 /	68		AN-	-4 /	67 		AN-	-5 /	66
HN		F	SPL	SPLA		F	SPL	SPLA	 -	F	SPL	SPLA
1	ij		102.2	79.7		•	106.3	83.8		•	111.9	92.8
2	!!	146.0	97.9	, ,	ļ		101.2		ļ	,	108.2	97.3
3	!!	219.0	94.8	•		•	100.4	•	ļ	•	109.0	100.4
4	!!	292.0	89.9	•		•	97.6	•	Ì		•	101.7
5		365.0	86.3	•	ļ		94.2	•		•	•	101.4
6	: :		78.6			•	89.3	•	ļ	•	100.0	96.8
1 7	: :		74.9		ļ	•	•	79.9	ļ	•	101.2	99.3
8		584.0	65.2	•			,	78.7		, , , ,	99.9	
9	• •	657.0	0.0			•	•	80.2	1	810.0	94.0	93.2 94.4
10	• •	730.0	0.0	•		•	•	71.9	ļ	900.0	•	•
11		803.0 876.0	0.0	<u>.</u> .		880.0 960.0	•	•	ļ	1080.0	•	
12		949.0	0.0	0.0	 	1040.0		•	•	1170.0	•	
•	• •	.022.0	•	-	•	1120.0	•	•	•	•	82.1	82.7
•		.022.0	0.0	•	•	1200.0	•	•	•	1350.0	78.1	•
•		168.0	0.0	•	•	1280.0	•	•	•	1440.0	76.4	
•	• •	241.0	0.0	•	•	1360.0	•	•	•	1530.0	80.5	
18		314.0	0.0	•	•	1440.0	•	•	•	1620.0	72.5	
1 19		387.0	0.0		•	1520.0	•	•	•	1710.0	64.6	65.6
20	* *	460.0	0.0	•	•	1600.0	•	•	•	1800.0	0.0	0.0
21		533.0	0.0	•	•	1680.0	•	•	•	1890.0	0.0	0.0
22		606.0	0.0		•	1760.0	•	•	•	1980.0	0.0	0.0
23		679.0	0.0	•	•	1840.0	•	•	•	2070.0	0.0	0.0
24		752.0	0.0	0.0	•	1920.0	•	•	•	2160.0	0.0	0.0
25	• •	825.0	0.0	0.0	•	2000.0	•	•	•	2250.0	0.0	0.0
26	• •	898.0	0.0	0.0	•	2080.0	•	•	•	2340.0	0.0	0.0
27	: :	971.0	0.0	0.0	•	2160.0	•	•	•	2430.0	0.0	0.0
28		044.0	0.0	0.0	i	2240.0	0.0	•	•	2520.0	0.0	0.0
29		117.0	0.0	0.0	i	2320.0	0.0	•	•	2610.0	0.0	0.0
30		190.0	0.0	0.0	i	2400.0	0.0	•	•	2700.0	0.0	0.0
31		263.0	0.0	•	•	2480.0	0.0	•	•	2790.0	0.0	0.0
32		336.0	0.0	7	:	2560.0	0.0			2880.0	0.0	0.0
33		409.0	0.0	•	-	2640.0	0.0	•	•	2970.0	0.0	0.0
34	: :	482.0	0.0	: :	•	2720.0	0.0	•	•	3060.0	0.0	0.0
35	• •	2555.0	0.0	•	•	2800.0	0.0		•	3150.0	0.0	0.0
36		628.0	0.0	1		2880.0	0.0	:	•	3240.0	0.0	0.0
37	: :	701.0	0.0	•	•	2960.0	0.0	•	•	3330.0	0.0	0.0
j 38		2774.0	0.0		•	3040.0	0.0	•	•	3420.0	0.0	0.0
j 39	• •	847.0	0.0	0.0	1	3120.0		•	-	3510.0	0.0	0.0
40	1 2	920.0	0.0	0.0	ĺ	3200.0	0.0	•	•	3600.0	0.0	0.0
+	++-		+	t	ļ	 	•	•	•	ļ	•	+i
+			+	•	•	-	•	•	•	+	•	
]	OAS	SPL	104.4	•	•		108.8					108.8
+			+	+	!	t	+	+	t	+	+	t

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 2 (PITCH ANGLE: 20.8 DEG)

	+				DATA-1	POINT /	RUN			
+	AN-	-7 /	-		AN	-4 /	•	AN	-5 /	66
HN	F	SPL			'	SPL	SPLA	•	SPL	SPLA
1 2		•	81.6			106.3 105.8		•	112.3	:
	146.0	100.4	87.0 86.6			•	92.4 94.9	•	112.9 111.5	
1 4	•		89.7			•	95.0	•	112.6	•
+	365.0		-			•	95.7	•	1112.0	
6	438.0	•		•		•	96.0	•	•	108.7
:	5,11.0	•				•		630.0	•	
8	584.0	•	•			•	90.7	•	106.2	
	657.0	•				88.4		•	106.7	•
	730.0	•	•			•	•		106.7	
• •	803.0	•		: :		•	•		103.6	
12	876.0	•	:	٠.		•		1080.0	•	
13	949.0	0.0	0.0	İ	1040.0	78.1	78.1	1170.0	101.3	101.9
14	1022.0	0.0	0.0	H	1120.0	76.3	76.3	1260.0	99.2	99.8
15	1095.0	0.0	0.0	1	1200.0	73.8		1350.0		99.2
	1168.0		•		1280.0	•		1440.0	•	96.2
	1241.0	•	•		1360.0	•		1530.0	•	
•	1314.0	•	•		1440.0	•		1620.0	•	
	1387.0	•	•	•	1520.0	•		1710.0	•	•
•	1460.0	0.0	•		1600.0	•		1800.0	87.6	' :
	1533.0	0.0		٠.	1680.0	•		1890.0	84.6	•
•	1606.0	0.0	•		1760.0	•		1980.0	86.7	
· ·	1679.0	0.0			1840.0			2070.0	82.6	•
•	1752.0	0.0	•		1920.0	•		2160.0	79.9	81.1
•	1825.0 1898.0	0.0 0.0			2000.0 2080.0	•		2250.0 2340.0	78.9 77.7	80.2
•	1971.0	0.0	•		2160.0	•		2430.0	76.4	79.0 77.7
•	2044.0	0.0	•		2240.0	•	•	2520.0	73.5	
	2117.0	0.0	•	•	2320.0	0.0		2610.0	74.9	•
•	2190.0	0.0	•	٠.	2400.0	0.0	0.0	:	72.4	73.7
•	2263.0				2480.0	0.0		2790.0	69.6	
32	2336.0	0.0	<u>.</u>	: :	2560.0	0.0		2880.0	65.8	67.0
33	2409.0	0.0			2640.0	0.0	0.0	2970.0	0.0	0.0
34	2482.0	0.0			2720.0	0.0	0.0 [3060.0	0.0	0.0
35	2555.0	0.0	0.0	l	2800.0	0.0	0.0	3150.0	0.0	0.0
36	2628.0	0.0	0.0	!	2880.0	0.0		3240.0	0.0	0.0
37	2701.0	0.0	•		2960.0	0.0		3330.0	0.0	0.0
38	2774.0	0.0	•	•	3040.0	0.0		3420.0	0.0	0.0
	2847.0	0.0	•		3120.0	•		3510.0	0.0	0.0
•	2920.0	•			3200.0			[3600.0	•	0.0
+								.+		/
(CASPL	•	93.9	•	•	•	103.2	•	•	117.0
+		+	 	1-1		+	tt	+	 	

F - FREQUENCY HZ
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA
SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 3 (PITCH ANGLE: 20.8 DEG)

1		DATA-POINT / RUN AN-7 / 68 AN-4 / 67 AN-5 / 66											
1	+		 AN	-7 / +	68 +	1	AN-	-4 /	67	AN	-5 /	66	
2 146.0 102.5 89.1 160.0 103.8 92.4 180.0 113.1 102 3 219.0 98.5 87.6 240.0 105.7 97.1 270.0 112.8 104 4 292.0 95.7 89.1 320.0 103.1 96.5 360.0 113.3 108 5 365.0 95.3 90.5 4400.0 103.3 98.5 450.0 112.8 109 6 438.0 91.9 87.1 480.0 100.6 97.4 540.0 109.6 106 7 511.0 87.7 84.5 560.0 96.4 93.2 630.0 110.9 109 8 584.0 83.5 81.6 640.0 96.2 94.3 720.0 110.4 109 9 657.0 81.5 79.6 720.0 94.7 93.9 810.0 108.8 108 10 730.0 78.6 77.8 1800.0 91.4 90.6 900.0 107.9 107 11 803.0 74.3 73.5 880.0 88.0 87.2 990.0 107.8 107 11 803.0 74.3 73.5 880.0 88.0 87.2 990.0 107.8 107 12 876.0 69.4 68.6 940.0 83.0 83.0 1170.0 103.4 104 104 109 14 1022.0 0.0 0.0 1120.0 79.8 79.8 1260.0 105.4 106 15 1095.0 0.0 0.0 1120.0 77.8 79.8 1260.0 105.4 106 15 1095.0 0.0 0.0 1280.0 77.5 78.1 1440.0 101.6 102 17 1241.0 0.0 0.0 1360.0 77.5 78.1 1450.0 100.6 101 18 1314.0 0.0 0.0 1460.0 0.0 0.0 1760.0 0.0 0.0 1760.0 0.0 0.0 1760.0 0.0 0.0 1780.0 93.1 94 22 1666.0 0.0 0.0 1680.0 0.0 0.0 1760.0 0.0 0.0 1780.0 93.1 94 22 1666.0 0.0 0.0 1860.0 0.0 0.0 1780.0 93.1 94 22 1666.0 0.0 0.0 1680.0 0.0 0.0 1760.0 0.0 0.0 1770.0 93.1 94 22 1666.0 0.0 0.0 1260.0 0.0 0.0 1260.0 0.0 0.0 1260.0 77.5 78.1 1890.0 84.7 86 22 11653.0 0.0 0.0 1260.0 0.0 0.0 1260.0 77.6 78 23 1679.0 0.0 0.0 1260.0 0.0 0.0 12790.0 84.7 86 22 13679.0 0.0 0.0 1260.0 0.0 0.0 1260.0 77.6 78 23 1263.0 0.0 0.0 12240.0 0.0 0.0 12340.0 85.8 87 27 1971.0 0.0 0.0 12240.0 0.0 0.0 12340.0 85.8 87 28 12044.0 0.0 0.0 12240.0 0.0 0.	Н	N İ	F 	SPL	SPLA	į	F	SPL	SPLA	F	SPL	SPLA	
3 219.0 98.5 87.6 240.0 105.7 97.1 270.0 112.8 104 4 292.0 95.7 89.1 320.0 103.1 96.5 360.0 113.3 108 5 365.0 95.3 90.5 400.0 103.3 98.5 450.0 112.8 109 6 438.0 91.9 87.1 480.0 100.6 97.4 540.0 109.6 106 7 511.0 87.7 84.5 560.0 96.4 93.2 630.0 110.9 109 6 106 7 511.0 87.7 84.5 560.0 96.4 93.2 630.0 110.9 109 8 584.0 83.5 81.6 640.0 96.2 94.3 720.0 110.4 109 9 657.0 81.5 79.6 720.0 94.7 93.9 810.0 108.8 108 108 730.0 78.6 77.8 800.0 91.4 90.6 900.0 107.9 107 11 803.0 74.3 73.5 880.0 88.0 87.2 990.0 107.8 107 12 876.0 69.4 68.6 960.0 86.6 86.6 1080.0 106.1 106 13 949.0 0.0 0.0 1120.0 79.8 79.8 1260.0 105.4 106 13 949.0 0.0 0.0 1120.0 79.8 79.8 1260.0 105.4 106 15 11095.0 0.0 0.0 11200.0 77.3 77.9 1350.0 103.7 104 16 1168.0 0.0 0.0 1280.0 77.5 78.1 1440.0 101.6 102 17 1241.0 0.0 0.0 1360.0 77.5 78.1 1440.0 101.6 102 17 1241.0 0.0 0.0 1520.0 0.0 0.0 1520.0 0.0 0.0 1520.0 0.0 0.0 1800.0 93.1 94 22 1666.0 0.0 0.0 1560.0 0.0 0.0 1800.0 93.1 94 22 1666.0 0.0 0.0 1660.0 0.0 0.0 1280.0 93.1 94 22 1666.0 0.0 0.0 1280.0 0.0 0.0 1280.0 93.1 94 22 1666.0 0.0 0.0 1260.0 0.0 0.0 1250.0 88.4 89 23 1679.0 0.0 0.0 1240.0 0.0 0.0 1250.0 85.8 87 27 11971.0 0.0 0.0 1240.0 0.0 0.0 1250.0 85.8 87 27 11971.0 0.0 0.0 12400.0 0.0 0.0 12500.0 87.0 88 48 29 12117.0 0.0 0.0 12400.0 0.0 0.0 12500.0 87.3 88 29 12117.0 0.0 0.0 12400.0 0.0 0.0 12500.0 87.3 88 30 12190.0 0.0 0.0 12400.0 0.0 0.0 12500.0 87.3 88 33 12699.0 0.0 0.0 12400.0 0.0 0.0 12500.0 87.3 88 33 12499.0 0	İ	•	•	•		į	:	•	•		•	95.1	
4 292.0 95.7 89.1 320.0 103.1 96.5 360.0 113.3 108 5 365.0 95.3 90.5 400.0 103.3 98.5 450.0 112.8 109 6 438.0 91.9 87.1 480.0 100.6 97.4 540.0 109.6 106 7 511.0 87.7 84.5 560.0 96.4 93.2 630.0 110.9 109 8 584.0 83.5 81.6 640.0 96.2 94.3 720.0 110.4 109 9 657.0 81.5 79.6 720.0 94.7 93.9 810.0 108.8 108 10 730.0 78.6 77.8 800.0 91.4 90.6 900.0 107.9 107 11 803.0 74.3 73.5 880.0 88.0 87.2 990.0 107.8 107 12 876.0 69.4 68.6 960.0 86.6 86.6 1080.0 106.1 106 13 949.0 0.0 0.0 1120.0 79.8 79.8 1260.0 103.4 104 14 1022.0 0.0 0.0 1120.0 77.3 77.9 1350.0 103.7 104 16 1168.0 0.0 0.0 1280.0 77.5 78.1 1440.0 101.6 102 17 1241.0 0.0 0.0 1360.0 77.5 78.1 1440.0 101.6 101 19 1387.0 0.0 0.0 1600.0 0.0 1520.0 0.0 0.0 1890.0 97.0 98 22 1666.0 0.0 0.0 1600.0 0.0 0.0 1890.0 97.9 93 22 1666.0 0.0 0.0 1760.0 0.0 0.0 1890.0 91.9 93 22 1666.0 0.0 0.0 1220.0 0.0 0.0 1220.0 0.0 0.0 1230.0 0.0 0.0 1230.0 77.5 78.1 1440.0 88.4 89 23 1679.0 0.0 0.0 1240.0 0.0 0.0 1250.0 0.0 0.0 1250.0 0.0 0.0 1250.0 84.7 86 24 1752.0 0.0 0.0 1260.0 0.0 1270.0 85.7 87 27 1971.0 0.0 0.0 1220.0 0.0 0.0 1230.0 93.1 94 24 1752.0 0.0 0.0 1240.0 0.0 0.0 1250.0 85.7 87 27 1971.0 0.0 0.0 1240.0 0.0 0.0 1250.0 87.3 88 29 2117.0 0.0 0.0 1240.0 0.0 0.0 1250.0 0.0 0.0 1250.0 85.8 87 27 1971.0 0.0 0.0 1240.0 0.0 0.0 1250.0 86.2 87 31 12263.0 0.0 0.0 1240.0 0.0 0.0 1250.0 87.3 88 29 2117.0 0.0 0.0 12260.0 0.0 0.0 12340.0 85.7 88 30 12190.0 0.0 0.0 12400.0 0.0 0.0 12500.0 77.1 78 33 12499.0 0.0 0.	•	•	*	•	•	ļ	*	•	•	•	•	102.2	
5	•	•	•	•	•	ļ	•	•	•	•	•	104.2	
6	•	•	•	•	•	1	•	•		•	•	108.5	
7	•	•	•	•		ł	•	•	•	•	•	109.6	
8	•		•	•		1	•	•	•	•	•	106.4	
9	•	•		•	•	1	•	•	•		•		
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19	•			=	•	-	•	•	•	•	•	101.6	
20	1	9	1387.0	0.0	0.0	•	•		0.0	•	•	98.0	
21 1533.0 0.0 0.0 1680.0 0.0 0.0 1890.0 91.9 93 22 1606.0 0.0 0.0 1760.0 0.0 0.0 1980.0 88.4 89 23 1679.0 0.0 0.0 1840.0 0.0 0.0 2070.0 81.4 82 24 1752.0 0.0 0.0 1920.0 0.0 0.0 2160.0 77.6 78 25 1825.0 0.0 0.0 2000.0 0.0 0.0 2250.0 84.7 86 26 1898.0 0.0 0.0 2080.0 0.0 0.0 2340.0 85.7 87 27 1971.0 0.0 0.0 2160.0 0.0 0.0 2430.0 85.8 87 28 2044.0 0.0 0.0 2240.0 0.0 0.0 2520.0 87.3 88 29 2117.0 0.0 0.0 2320.0 0.0 0.0 2610.0 87.0 88 30 2190.0 0.0 0.0 2440.0 0.0 0.0 2700.0 86.2 87 31 2263.0 0.0 0.0 2480.0 0.0 0.0 2790.0 84.9 86 32 2336.0 0.0 0.0 2560.0 0.0 0.0 2880.0 83.9 85 33 2409.0 0.0 0.0 2560.0 0.0 0.0 2970.0 81.1 82 34 2482.0 0.0 0.0 2720.0 0.0 0.0 3060.0 77.1 78 35 2555.0 0.0 0.0 2880.0 0.0 0.0 3330.0 67.5 68 38 2774.0 0.0 0.0 2960.0 0.0 0.0 3330.0 67.5 68 38 2774.0 0.0 0.0 3040.0 0.0 0.0 3420.0 73.8 75	2	0	1460.0	0.0	0.0	İ	1600.0		•	•	•	94.3	
23	2	1	1533.0	0.0	0.0	İ	1680.0	0.0	0.0	1890.0	•	j 93.1 j	
24 1752.0 0.0 0.0 1920.0 0.0 0.0 2160.0 77.6 78 25 1825.0 0.0 0.0 2000.0 0.0 0.0 2250.0 84.7 86 26 1898.0 0.0 0.0 2080.0 0.0 0.0 2340.0 85.7 87 27 1971.0 0.0 0.0 2160.0 0.0 0.0 2430.0 85.8 87 28 2044.0 0.0 0.0 2240.0 0.0 0.0 2520.0 87.3 88 29 2117.0 0.0 0.0 2320.0 0.0 0.0 2520.0 87.0 88 30 2190.0 0.0 0.0 2400.0 0.0 0.0 2700.0 86.2 87 31 2263.0 0.0 0.0 2480.0 0.0 0.0 2790.0 84.9 86 32 2336.0 0.0 0.0 2560.0 0.0 0.0 2880.0 83.9 85 33 2409.0 0.0 0.0 2640.0 0.0 0.0 2970.0 81.1 82 34 2482.0 0.0 0.0 2720.0 0.0 0.0 3150.0 77.1 78 35 2555.0 0.0 0.0 2880.0 0.0 0.0 3240.0 70.7 71 37 2701.0 0.0 0.0 2880.0 0.0 0.0 3330.0 67.5 68 38 2774.0 0.0 0.0 3040.0 0.0 0.0 3420.0 73.8 75	2	2	1606.0	0.0	0.0	Ì	1760.0	0.0	0.0	1980.0	•	89.6	
25	2	3	1679.0	0.0	0.0	1	1840.0	0.0	0.0	2070.0	81.4	82.6	
26 1898.0 0.0 0.0 2080.0 0.0 0.0 2340.0 85.7 87 27 1971.0 0.0 0.0 2160.0 0.0 0.0 12430.0 85.8 87 28 2044.0 0.0 0.0 12240.0 0.0 0.0 12520.0 87.3 88 29 2117.0 0.0 0.0 2320.0 0.0 0.0 2610.0 87.0 88 30 2190.0 0.0 0.0 2400.0 0.0 0.0 12700.0 86.2 87 31 2263.0 0.0 0.0 12480.0 0.0 0.0 12790.0 84.9 86 32 2336.0 0.0 0.0 2560.0 0.0 0.0 2880.0 83.9 85 33 2409.0 0.0 0.0 2640.0 0.0 0.0 2970.0 81.1 82 34 2482.0 0.0 0.0 2720.0 0.0 0.0 3150.0 77.1 78 35 2555.0 0.0 0.0 2880.0 0.0 0.0 3150.0 73.3 74 36 2628.0 0.0 0.0 2880.0 0.0 0.0 3330.0 67.5 68 38 2774.0 0.0 0.0 3040.0 0.0 0.0 3420.0 73.8 75	[2			0.0	0.0	1	1920.0	0.0	0.0	2160.0	77.6	78.8	
27 1971.0 0.0 0.0 2160.0 0.0 0.0 12430.0 85.8 87 28 2044.0 0.0 0.0 12240.0 0.0 0.0 12520.0 87.3 88 29 2117.0 0.0 0.0 12320.0 0.0 0.0 12610.0 87.0 88 30 2190.0 0.0 0.0 12400.0 0.0 0.0 12700.0 86.2 87 31 12263.0 0.0 0.0 12480.0 0.0 0.0 12790.0 84.9 86 32 12336.0 0.0 0.0 12560.0 0.0 0.0 12880.0 83.9 85 33 12409.0 0.0 0.0 12640.0 0.0 0.0 12970.0 81.1 82 34 12482.0 0.0 0.0 12720.0 0.0 0.0 13150.0 77.1 78 35 12555.0 0.0 0.0 12880.0 0.0 0.0 13150.0 73.3 74 36 12628.0 0.0 0.0 12880.0 0.0 0.0 13240.0 70.7 71 37 12701.0 0.0 0.0 12960.0 0.0 0.0 13330.0 67.5 68 38 12774.0 0.0 0.0 13040.0 0.0 0.0 13420.0 73.8 75	•			0.0	0.0	•	•	0.0	0.0	2250.0	84.7	86.0	
28	•	,	•	?	•	•	•	•	0.0	2340.0	85.7	87.0	
29 2117.0 0.0 0.0 2320.0 0.0 0.0 2610.0 87.0 88 30 2190.0 0.0 0.0 2400.0 0.0 0.0 2700.0 86.2 87 31 2263.0 0.0 0.0 2480.0 0.0 0.0 2790.0 84.9 86 32 2336.0 0.0 0.0 2560.0 0.0 0.0 2880.0 83.9 85 33 2409.0 0.0 0.0 2640.0 0.0 0.0 2970.0 81.1 82 34 2482.0 0.0 0.0 2720.0 0.0 0.0 3060.0 77.1 78 35 2555.0 0.0 0.0 2880.0 0.0 0.0 3150.0 73.3 74 36 2628.0 0.0 0.0 2880.0 0.0 0.0 3240.0 70.7 71 37 2701.0 0.0 0.0 2960.0 0.0 0.0 3330.0 67.5 68 38 2774.0 0.0 0.0 3040.0 0.0 0.0 3420.0 73.8 75		•	•	•	•			•		•	•	87.1	
30 2190.0 0.0° 0.0 2400.0 0.0 0.0 2700.0 86.2 87 31 2263.0 0.0 0.0 2480.0 0.0 0.0 2790.0 84.9 86 32 2336.0 0.0 0.0 2560.0 0.0 0.0 2880.0 83.9 85 33 2409.0 0.0 0.0 2640.0 0.0 0.0	•	•	•	•	•	•	•	•		•	•	88.6	
31 2263.0 0.0 0.0 2480.0 0.0 0.0 2790.0 84.9 86 32 2336.0 0.0 0.0 2560.0 0.0 0.0 2880.0 83.9 85 33 2409.0 0.0 0.0 2640.0 0.0 0.0 2970.0 81.1 82 34 2482.0 0.0 0.0 2720.0 0.0 0.0 3060.0 77.1 78 35 2555.0 0.0 0.0 2800.0 0.0 0.0 3150.0 73.3 74 36 2628.0 0.0 0.0 2880.0 0.0 0.0 3240.0 70.7 71 37 2701.0 0.0 0.0 2960.0 0.0 0.0 3330.0 67.5 68 38 2774.0 0.0 0.0 3040.0 0.0 0.0 3420.0 73.8 75	•	•	•	•	•	•	•	•	•	•	•	88.3	
32 2336.0 0.0 0.0 2560.0 0.0 0.0 2880.0 83.9 85 33 2409.0 0.0 0.0 2640.0 0.0 0.0 2970.0 81.1 82 34 2482.0 0.0 0.0 2720.0 0.0 0.0 3060.0 77.1 78 35 2555.0 0.0 0.0 2800.0 0.0 0.0 3150.0 73.3 74 36 2628.0 0.0 0.0 2880.0 0.0 0.0 3240.0 70.7 71 37 2701.0 0.0 0.0 2960.0 0.0 0.0 3330.0 67.5 68 38 2774.0 0.0 0.0 3040.0 0.0 0.0 3420.0 73.8 75	•	•	•	•	•	•	•	•				87.5	
33 2409.0 0.0 0.0 2640.0 0.0 0.0 2970.0 81.1 82 34 2482.0 0.0 0.0 2720.0 0.0 0.0 3060.0 77.1 78 35 2555.0 0.0 0.0 2800.0 0.0 0.0 3150.0 73.3 74 36 2628.0 0.0 0.0 2880.0 0.0 0.0 3240.0 70.7 71 37 2701.0 0.0 0.0 2960.0 0.0 0.0 3330.0 67.5 68 38 2774.0 0.0 0.0 3040.0 0.0 0.0 3420.0 73.8 75	- 1		7	•		•	•	•				•	
34 2482.0 0.0 0.0 2720.0 0.0 0.0 3060.0 77.1 78 35 2555.0 0.0 0.0 2800.0 0.0 0.0 3150.0 73.3 74 36 2628.0 0.0 0.0 2880.0 0.0 0.0 3240.0 70.7 71 37 2701.0 0.0 0.0 2960.0 0.0 0.0 3330.0 67.5 68 38 2774.0 0.0 0.0 3040.0 0.0 0.0 3420.0 73.8 75	•		•	•	=	•	•	•		•	•	•	
35 2555.0 0.0 0.0 2800.0 0.0 0.0 3150.0 73.3 74 36 2628.0 0.0 0.0 2880.0 0.0 0.0 3240.0 70.7 71 37 2701.0 0.0 0.0 2960.0 0.0 0.0 3330.0 67.5 68 38 2774.0 0.0 0.0 3040.0 0.0 0.0 3420.0 73.8 75	•	•	•	•	:	•	•	•			•	82.3	
36 2628.0 0.0 0.0 2880.0 0.0 0.0 3240.0 70.7 71 37 2701.0 0.0 0.0 2960.0 0.0 0.0 3330.0 67.5 68 38 2774.0 0.0 0.0 3040.0 0.0 0.0 3420.0 73.8 75	:	•	•	•	•	•	•	•		•	•	78.3	
37 2701.0 0.0 0.0 2960.0 0.0 0.0 3330.0 67.5 68 38 2774.0 0.0 0.0 3040.0 0.0 0.0 3420.0 73.8 75	•	•	•	•		•		•			•		
38 2774.0 0.0 0.0 3040.0 0.0 0.0 3420.0 73.8 75	•		•	ː		•				•	•	, ,	
	:			:	•	•		•		•	•		
I so the start and the desired to the the the transfer to the		•	•	•		•	•	•		•	•	•	
40 2920.0 0.0 0.0 3200.0 0.0 0.0 3600.0 74.0 75	•					•	•	•		•	•		
++++++++++-+++	+		+	•									
+	+			 									
OASPL 107.3 96.6 112.8 105.3 122.4 119	ļ +	0.	ASPL										

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 4 (PITCH ANGLE: 20.8 DEG)

	•	+ !			DATA-	POINT /	RUN			
+		AN-	-7 /	68	AN	i-4 /	67 j	AN	-5 / +	66
HN	j	F	SPL	SPLA	F	SPL	SPLA	i F	SPL	SPLA
1	į		103.6	81.1	80.0	107.7	85.2	90.0	115.2	96.1
2	Ţ	146.0	102.5	89.1	160.0	104.9	91.5	180.0	1113.3	102.4
3	Ţ	219.0	99.0	88.1	240.0	105.9	97.3	270.0	115.4	106.8
4	ļ	292.0	97.0	90.4	320.0	103.2	96.6	360.0	113.8	109.0
5	ļ	365.0	95.5	90.7	400.0	101.1	96.3	450.0	113.4	110.2
6	ļ	438.0	90.2	85.4	480.0	100.2	97.0	540.0	111.4	108.2
7	1	511.0	87.2	84.0	560.0	98.9	95.7	630.0	113.2	1111.3
8	Ţ	584.0	86.2	84.3	640.0	96.7	94.8	720.0	110.2	109.4
9	ļ	657.0	81.5	79.6	720.0	93.4	92.6	810.0	110.0	109.2
10	ŀ	730.0	74.9	74.1	800.0	91.7	90.9	900.0	109.6	109.6
11	!	803.0	0.0	0.0	880.0	89.6	88.8	990.0	107.5	107.5
12	ļ	876.0	0.0	0.0	960.0	86.1	86.1	1080.0	1106.7	106.7
13	!	949.0	0.0	0.0	11040.0	84.9	84.9	1170.0	106.5	1107.1
14	ļ	1022.0	0.0	0.0	1120.0	83.1	83.1	1260.0	102.8	103.4
15	!	1095.0	0.0	0.0	1200.0 1280.0	78.2	78.8	1350.0	103.5	104.1
16	ļ	1168.0 1241.0	0.0	0.0 0.0	•	75.4	76.0 74.4	11440.0	102.2	103.2
17	1	1314.0] 0.0 0.0	0.0	1360.0 1440.0	73.8 71.6	74.4	1530.0 1620.0	99.4	100.4 98.8
1 19	-	1314.0	0.0	0.0	1520.0	68.2	69.2	1710.0	97.8	98.3
20	ł	1460.0	0.0	0.0	1600.0	0.0	•	1800.0	96.0	97.2
21	1	1533.0	0.0	0.0	1680.0	0.0	•	1890.0	93.0	94.2
22	-	1606.0	0.0	0.0	1760.0	0.0		1980.0	92.0	93.2
23	-	1679.0	0.0	0.0	1840.0	0.0	0.0	2070.0	90.8	92.0
24	1	1752.0	0.0	0.0	1920.0	0.0	0.0	2160.0	88.4	89.6
25	1	1825.0	0.0	0.0	2000.0	0.0	0.0	2250.0	87.4	88.7
26	i	1898.0	0.0	0.0	2080.0	0.0	0.0	2340.0	86.7	88.0
27	ì	1971.0	0.0	0.0	2160.0	0.0	0.0	2430.0	85.7	87.0
28	1	2044.0	0.0	0.0	2240.0	0.0	0.0	2520.0	84.5	85.8
29	i	2117.0	0.0	0.0	2320.0	0.0	0.0	2610.0	83.7	85.0
30	i	2190.0	0.0	0.0	2400.0	0.0	0.0	2700 0	82.0	83.3
31	i	2263.0	0.0		2480.0	0.0			81.0	82.3
j 32	j	2336.0	0.0		2560.0	0.0	:	2880.0	79.7	j 80.9 j
33	İ	2409.0	0.0	0.0	2640.0	0.0	0.0	2970.0	77.7	j 78.9 j
34	Ì	2482.0	0.0	0.0	2720.0	0.0	0.0	3060.0	76.0	77.2
35	İ	2555.0	0.0	0.0	2800.0	0.0	0.0	3150.0	76.5	77.7
36	ĺ	2628.0	0.0	0.0	2880.0	0.0	0.0	3240.0	74.0	75.2
37	Ì	2701.0	0.0	0.0	2960.0	0.0	0.0	3330.0	71.7	72.9
38	Ì	2774.0	0.0	0.0	3040.0	0.0	0.0	3420.0	71.9	73.1
39	ĺ	2847.0	0.0		3120.0		0.0	3510.0	71.0	72.2
40	-	2920.0	0.0	0.0	3200.0	0.0	0.0	3600.0	69.9	70.9
+	-+-		-	+	-	-		++	•	+
+			•		=	-		H	•	÷+
J	0.	ASPL	-	96.8	-	112.8				119.9
+			+	+		+	t	++	+	++

⁻ FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

(PITCH ANGLE: 20.8 DEG) MICROPHONE: MP 5

	•	+ 			• •	DATA-1	POINT /	RUN	-			+
.4		AN-	-7 /	68		AN-	-4 /	67	1	AN	-5 /	66
H	IN İ	F +	SPL	SPLA	 	F	SPL	SPLA		F	SPL	SPLA
Ì	1	•	104.1	81.6			108.6	86.1	l		116.9	97.8
}	2	•	101.9	88.5		•	104.6	91.2	į		111.5	100.6
ļ	3	219.0	95.1	84.2		•	103.1	94.5	1	270.0	•	106.0
1	4	292.0	95.5	88.9		•	106.1	99.5	1		116.4	111.6
-	5	365.0	96.1	91.3		•	101.5	96.7			108.8	105.6
l 1	6 7	438.0 511.0	87.3 84.4	82.5		480.0	95.0	91.8	!		1111.5	108.3
- 1	8	511.0	80.4	81.2 78.5		560.0 640.0	96.9	93.7 93.9	ļ		112.8	110.9
i	9	657.0	0.0	0.0		720.0	95.8 90.2	89.4	ļ		108.0	107.2 107.0
1	0	730.0	0.0	0.0		800.0	88.7	87.9	ļ		107.8 106.8	107.0
•	1	803.0	0.0	0.0		880.0	85.8	85.0	¦		106.8	106.8
:	2	876.0	0.0	0.0		960.0	83.4		ł		104.0	100.8
	13	949.0	0.0	•		1040.0	82.7	82.7	•		104.0	104.0
	•	1022.0	0.0	•		1120.0	78.9		•		103.0	103.6
•	•	1095.0	0.0	•	•	1200.0	74.8		•		100.0	100.6
•	•	1168.0	0.0	•	•	1280.0	0.0	• •	•	1440.0	98.6	99.6
•	•	1241.0	0.0	•	•	1360.0	0.0	•	•	1530.0	97.7	98.7
•	•	1314.0	0.0	•	•	1440.0	•	•	•	1620.0	95.2	96.2
•	•	1387.0	0.0	•	•	1520.0	•	•	•	1710.0	93.4	94.4
•	•	1460.0	0.0	•	•	1600.0	•		•	1800.0	93.4	94.6
•	•	1533.0	0.0	•	•	1680.0	•		•	1890.0	90.3	91.5
:	•	1606.0	0.0	•	•	1760.0	•	•	•	1980.0	89.2	90.4
1 2	•	1679.0	0.0	•	•	1840.0	•	•	•	2070.0	89.2	90.4
:		1752.0	0.0	i 0.0	•	1920.0	•	•	•	2160.0	86.0	87.2
j 2	•	1825.0	0.0	0.0	•	2000.0	•		•	2250.0	84.4	85.7
j 2	•	1898.0	0.0	0.0	i	2080.0	0.0	•	•	2340.0	83.7	85.0
j 2	27	1971.0	0.0	0.0	Ì	2160.0	0.0	0.0	İ	2430.0	80.4	81.7
2	28	2044.0	0.0	0.0	1	2240.0	0.0	0.0	Ì	2520.0	80.9	82.2
2	29	2117.0	0.0	0.0	1	2320.0	0.0	0.0	1	2610.0	75.1	76.4
3	30	2190.0	0.0	0.0	1	2400.0	0.0	0.0	1	2700.0	77.1	78.4
1 3	31	2263.0	0.0	0.0		2480.0	0.0	0.0]	2790.0	76.7	78.0
•		2336.0	0.0	0.0	•	2560.0	0.0	:	_	2880.0	70.2	71.4
3		2409.0	0.0	0.0	1	2640.0	0.0	:		2970.0	71.7	72.9
] 3		2482.0	0.0	0.0	:	2720.0	0.0	•	-	3060.0	73.1	74.3
•		2555.0	0.0	0.0	•	2800.0	0.0	1		3150.0	63.8	65.0
•		2628.0	0.0	0.0	:	2880.0	0.0	: :		3240.0	69.7	70.9
•	•	2701.0	0.0	•	•	2960.0	0.0	: :	•	3330.0	69.3	70.5
•		2774.0	0.0	•	•	3040.0	•	•	•	3420.0	59.8	61.0
		2847.0	0.0	•	•	3120.0	•	•	•		0.0	
! 4	•	2920.0	•	•	•	3200.0	•		1	3600.0	0.0	0.0
+		+	•	f	•	•	-	tt	+		t	+
+		ACDI	•	•	•	∳ !	•	· •	•		•	• •
] J	·	ASPL		95.6		} +		104.3				118.7
7~~			T	T	-	T	T	T			T	T

- FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 6 (PITCH ANGLE: 20.8 DEG)

	+ 			DATA-I	POINT /	RUN			+
++	 AN-	-7 /	68	AN	-4 /	67	AN-	-5 /	66
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
	73.0	50.2	27.7	80.0	52.7	30.2	•		54.5
2	146.0	0.0	0.0	160.0	0.0	0.0		0.0	0.0
3	•	0.0	•	240.0		0.0	•	0.0	0.0
4	292.0	0.0	•	320.0		0.0	1	•	0.0
5	365.0	0.0	•	400.0			450.0	•	
6	438.0	0.0	•	480.0		0.0	•	•	0.0
7	511.0 584.0	0.0	•	560.0 640.0	•	0.0 0.0	630.0 720.0	•	0.0 0.0
9	657.0	0.0	•	040.0 	•		810.0	•	0.0
10	730.0	0.0	•	720.0			900.0	•	•
• •	803.0	0.0	•	880.0	•	. ,	990.0	•	0.0
•	876.0	0.0	•	960.0	•		1080.0	•	•
13	949.0	0.0		1040.0	•	. ,	1170.0	•	0.0
14	1022.0	•	•	1120.0	•		1260.0	•	0.0
15	1095.0	0.0	•	1200.0	•	•	1350.0	•	0.0
	1168.0	•	•	1280.0	•		1440.0		
17		0.0		1360.0	•		1530.0		0.0
	1314.0	•		1440.0	•		1620.0	•	
19	1387.0	0.0	•	1520.0	•	•	1710.0	•	•
j 20 j	1460.0	0.0	•	1600.0	•	•	1800.0	•	•
21	1533.0	0.0	0.0	1680.0	0.0	0.0	1890.0	0.0	j 0.0 j
22	1606.0	0.0	0.0	1760.0	0.0	0.0	1980.0	0.0	0.0
23	1679.0	0.0	0.0	1840.0	0.0	0.0	2070.0	0.0	0.0
24	1752.0	0.0	0.0	1920.0	0.0	0.0	2160.0	0.0	0.0
25	1825.0	0.0	0.0	2000.0	•	•	2250.0	•	0.0
	1898.0	0.0	•	2080.0	•		2340.0	•	
	1971.0		•	2160.0			2430.0	•	
	2044.0	•	•	2240.0	•		2520.0	:	
•	2117.0	•		2320.0	•		2610.0	•	
	2190.0	•	•	2400.0		• •	2700.0	:	: :
31	2263.0		5	2480.0	0.0	:	2790.0	•	: :
32	•	•	•	2560.0	0.0	:	2880.0	•	:
	2409.0	0.0		2640.0	0.0		2970.0	•	: :
1 1	2482.0		•	2720.0	0.0	•	3060.0	•	: - :
	2555.0 2628.0	0.0	:	2800.0 2880.0	0.0	•	3150.0 3240.0	:	: :
1 :	2701.0	0.0 1 0.0	•	2860.0 2960.0	•	•	3330.0	•	: :
•	2774.0	•	•	2900.0	•	:	3420.0	•	
	•	•	•	3120.0	•		3510.0	•	
: :	2920.0	•	•	3200.0	•		•	•	
	•	•		3200.0 - 					
	~	•	-	· · 	•		•	•	• •
		50.2				30.2			54.5
7		T	T	1-1	T	, -	T	r	T

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 7

(PITCH ANGLE: 20.8 DEG)

	†			*****		DATA-1	POINT /	RUN	-			
+	 	AN	-7 / +	68		AN-	-4 /	67		AN	-5 /	66
HN	F		SPL	SPLA		F	SPL	SPLA	ļ	F	SPL	SPLA
	73		104.2			•	109.9	:	ļ	•	116.1	•
	146		0.0	•	Į.		0.0	•	ļ	•	0.0	0.0
•	219		0.0	•			0.0	•		•	0.0	0.0
•	292 365		0.0 0.0	1		•	•	•	-	•	0.0	0.0
			0.0	•	•	400.0 480.0	•	•	 	•	0.0	0.0
•	511		0.0	•	•	560.0	•	•	i	•	0.0	0.0
8	584		0.0	•	•	640.0	,	•	i	•	0.0	0.0
•	657		0.0	:			•	•	i	•	0.0	0.0
10	730		0.0	1	: :	800.0	•	•	i	•	0.0	0.0
111	803		0.0	•	•	880.0	•	•	•	990.0	0.0	0.0
•	876		0.0	•	•	960.0	•	•	•	1080.0	0.0	0.0
•	949		0.0	•	•	1040.0	•	•	•	1170.0	0.0	0.0
•	1022		0.0	•	•	1120.0	•	•	•	1260.0	0.0	0.0
•	1095		0.0	•		1200.0	•			1350.0	0.0	0.0
16	11168	.0	0.0	0.0	Ì	1280.0	0.0			1440.0	0.0	0.0
17	1241	.0	0.0	0.0		1360.0	0.0	0.0	ĺ	1530.0	0.0	0.0
-	1314		0.0	0.0		1440.0	0.0	0.0	ı	1620.0	0.0	0.0
•	1387		0.0	•		1520.0	•			1710.0	0.0	0.0
7	1460		0.0	•	•	1600.0	•	•	•		0.0	0.0
	1533		0.0	•	•	1680.0	•	•	•	1890.0	0.0	0.0
-	1606		0.0	•	•	1760.0	•			1980.0		0.0
•	1679		0.0			1840.0	•			2070.0		, ,
*	1752		0.0	•	•	1920.0	•	•	•	2160.0	•	0.0
•	11825		0.0	•	•	2000.0	•	•	•	2250.0		0.0
•	1898		•	•		2080.0	•	•	•	2340.0	0.0	0.0
•	1971 2044					2160.0		•	•		0.0	0.0
•	2117		•	•	•	2320.0	•	•	•	2610.0	0.0	0.0
•	2190		•	•	•	2400.0	•	•	•	2700.0	•	0.0
•	2263		•			2480.0	0.0	:	•	2790.0	•	
	2336		•		•	2560.0	0.0	1	-	2880.0	0.0	
•	2409				•	2640.0	0.0	•	:	2970.0	•	
	2482				•	2720.0	0.0	•	:	3060.0	•	
	2555				•	2800.0	0.0	•	:	3150.0	•	•
36	2628	. 0	0.0		•	2880.0	0.0	-	-	3240.0		
37	2701	. 0	0.0	0.0	H	2960.0	0.0	0.0		3330.0	•	
•	: :		0.0		•	3040.0	•		•	3420.0	•	•
1	: :		•			3120.0				3510.0		
	2920 -									3600.0 		
+			 	-	 - -		h		 	+	+	-
	DASPL		104.2							 +	116.1 -	97.0

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

1 73.0 102.0 79.5 80.0 107.2 84.7 90.0 113.6 94 2 146.0 98.2 84.8 160.0 103.4 90.0 180.0 109.9 99 3 219.0 92.8 81.9 240.0 103.6 95.0 270.0 115.9 107 4 292.0 97.6 91.0 320.0 104.9 98.3 360.0 113.5 108 5 365.0 93.6 88.8 400.0 99.0 94.2 450.0 110.5 107 66 438.0 87.1 82.3 448.0 98.3 95.1 540.0 112.7 109 7 511.0 87.4 84.2 560.0 97.9 94.7 630.0 109.6 107 8 584.0 84.0 82.1 640.0 93.7 91.8 720.0 108.9 108 9 657.0 78.5 75.6 720.0 92.1 91.3 810.0 110.2 109 100 730.0 75.9 75.1 1800.0 91.4 90.6 900.0 105.8 105 11 803.0 0.0 0.0 880.0 87.2 86.4 990.0 105.7 105 12 876.0 0.0 0.0 1040.0 84.1 84.1 1170.0 104.5 105 14 1022.0 0.0 0.0 1120.0 81.3 81.3 1260.0 104.5 105 14 1022.0 0.0 0.0 1120.0 81.3 81.3 1260.0 107.1 102 16 1168.0 0.0 0.0 1360.0 0.0 0.0 1360.0 97.3 98 18 1314.0 0.0 0.0 1360.0 0.0 0.0 1360.0 0.0 1710.0 97.3 98 18 1314.0 0.0 0.0 1360.0 0.0 0.0 1380.0 97.3 98 18 1314.0 0.0 0.0 1360.0 0.0 0.0 1360.0 0.0 0.0 1380.0 97.3 98 18 1314.0 0.0 0.0 1360.0 0.0 0.0 1380.0 97.3 98 18 1314.0 0.0 0.0 1360.0 0.0 0.0 1380.0 97.4 98 19 1387.0 0.0 0.0 1360.0 0.0 0.0 1380.0 93.4 94 22 1606.0 0.0 0.0 1680.0 0.0 0.0 1380.0 93.4 94 22 1606.0 0.0 0.0 1360.0 0.0 0.0 1270.0 89.7 90 22 1170.0 0.0 0.0 1280.0 0.0 0.0 1280.0 93.4 94 22 1606.0 0.0 0.0 1280.0 0.0 0.0 1280.0 93.4 94 22 1606.0 0.0 0.0 1280.0 0.0 0.0 1280.0 93.4 94 22 1606.0 0.0 0.0 1280.0 0.0 0.0 1280.0 93.4 94 22 1606.0 0.0 0.0 1280.0 0.0 0.0 1280.0 79.7 81 33 1260.0 0.0 0.0 1280.0 0.0 0.0	====	ROPELLER								
AN-7	MICRO	PHONE: MP	9 (PITCH A	ANGLE: 20	.8 DEG)			
HN F SPL SPLA F SPL SPLA F SPL SPLA F SPL SPLA F SPL SPLA F SPL SPLA F SPL SPLA F SPL SPLA F SPL SPLA F SPL SPLA F SPL SPLA F SPL SPLA F SPL SPLA F SPL SPLA F SPL SPLA F SPL SPLA F SPL SPLA F SPL SPLA F SPLA		+			DATA-	POINT /	RUN			
HN F SPL SPLA F SPL SPLA F SPL		 An	-7 /			-4 /		• •	-5 /	66
2 146.0 98.2 84.8 160.0 103.4 90.0 180.0 109.9 99 3 219.0 92.8 81.9 240.0 103.6 95.0 270.0 115.9 107 4 292.0 97.6 91.0 320.0 104.9 98.3 360.0 113.5 108 5 365.0 93.6 88.8 400.0 99.0 94.2 450.0 110.5 107 6 438.0 87.1 82.3 480.0 98.3 95.1 540.0 112.7 109 7 511.0 87.4 84.2 560.0 97.9 94.7 630.0 110.5 107 88 584.0 84.0 82.1 640.0 93.7 91.8 720.0 108.9 108 9 657.0 78.5 76.6 720.0 92.1 91.3 810.0 110.2 109 10 730.0 75.9 75.1 800.0 91.4 90.6 900.0 105.8 105 11 803.0 0.0 0.0 880.0 87.2 86.4 990.0 105.7 105 12 876.0 0.0 0.0 1120.0 84.1 84.1 1170.0 104.5 105 13 1949.0 0.0 0.0 1120.0 84.1 84.1 1170.0 104.5 105 14 1022.0 0.0 0.0 1200.0 73.2 73.8 1350.0 102.1 102 16 1168.0 0.0 0.0 1280.0 0.0 0.0 1440.0 100.7 101 17 1241.0 0.0 0.0 1360.0 0.0 0.0 1440.0 0.0 0.0 1530.0 97.3 98 18 1314.0 0.0 0.0 1680.0 0.0 0.0 1680.0 0.0 0.0 1800.0 93.5 94 94 94 94 94 94 94 9	HN	F	SPL	_		SPL	•	• :	SPL	SPI
3 219.0 92.8 81.9 240.0 103.6 95.0 270.0 115.9 107 4 292.0 97.6 91.0 320.0 104.9 98.3 360.0 113.5 108 15 365.0 93.6 88.8 400.0 99.0 94.2 450.0 112.5 107 6 438.0 87.1 82.3 480.0 98.3 95.1 540.0 112.7 109 7 511.0 87.4 84.2 560.0 97.9 94.7 630.0 109.6 107 8 584.0 82.1 640.0 93.7 91.8 720.0 109.6 107 8 584.0 82.1 640.0 93.7 91.8 720.0 109.6 107 10 10 730.0 75.9 75.1 800.0 91.4 90.6 900.0 105.8 105 11 803.0 0.0 0.0 880.0 87.2 86.4 990.0 105.7 105 12 876.0 0.0 0.0 1040.0 84.1 84.1 1170.0 104.5 105 14 1022.0 0.0 0.0 1120.0 81.3 81.3 1260.0 100.3 100 15 1095.0 0.0 0.0 1280.0 0.0 0.0 1440.0 106.7 101 17 1241.0 0.0 0.0 1360.0 0.0 0.0 1440.0 0.0 1530.0 97.3 98 18 1314.0 0.0 0.0 1360.0 0.0 0.0 1360.0 0.0 1530.0 97.3 98 18 1314.0 0.0 0.0 1560.0 0.0 0.0 1570.0 0.0 1570.0 0.0	1	73.0	102.0	79.5	80.0	107.2	84.7	90.0	113.6	94.
4 292.0 97.6 91.0 320.0 104.9 98.3 360.0 113.5 108 5 365.0 93.6 88.8 400.0 99.0 94.2 450.0 110.5 107 6 438.0 87.1 82.3 480.0 98.3 95.1 540.0 110.7 109 7 511.0 87.4 84.2 560.0 97.9 94.7 630.0 109.6 107 8 584.0 84.0 82.1 640.0 93.7 91.8 720.0 108.9 108 9 657.0 78.5 76.6 720.0 92.1 91.3 810.0 110.2 109 10 730.0 75.9 75.1 800.0 91.4 90.6 900.0 105.8 105 11 803.0 0.0 0.0 880.0 87.2 86.4 990.0 105.7 105 12 876.0 0.0 0.0 960.0 84.0 84.0 1100.0 106.3 106 13 949.0 0.0 0.0 1120.0 81.3 81.3 1260.0 100.3 100 15 1095.0 0.0 0.0 1220.0 73.2 73.8 1350.0 102.1 102 1095.0 0.0 0.0 1220.0 73.2 73.8 1350.0 102.1 102 16 1168.0 0.0 0.0 1360.0 0.0 0.0 1530.0 97.3 98 18 1314.0 0.0 0.0 0.0 1440.0 0.0 0.0 1571.0 95.2 96 20 1460.0 0.0 0.0 1600.0 0.0 1710.0 95.2 96 22 1606.0 0.0 0.0 0.0 1600.0 0.0 0.0 1750.0 93.5 94 21 1533.0 0.0 0.0 0.0 1760.0 0.0 0.0 1280.0 0.0 0.0 1280.0 93.5 94 22 1606.0 0.0 0.0 0.0 1760.0 0.0 0.0 1270.0 89.2 90 23 1679.0 0.0 0.0 1260.0 0.0 0.0 1250.0 0.0 0.0 1250.0 93.5 94 24 1752.0 0.0 0.0 0.0 1260.0 0.0 0.0 1250.0 0.0 0.0 1250.0 89.2 90 23 1679.0 0.0 0.0 1260.0 0.0 0.0 1240.0 0.0 0.0 1240.0 84.3 85 28 2044.0 0.0 0.0 0.0 1240.0 0.0 0.0 1240.0 84.3 85 28 2044.0 0.0 0.0 0.0 1240.0 0.0 0.0 1240.0 0.0 0.0 1240.0 0.0 0.0 1240.0 0.0 0.0 1240.0 0.0 0.0 1250.0 74.7 75 36 1263.0 0.0 0.0 0.0 1280.0 0.0 0.0 1250.0 75.5 76 35 12555.0 0.0 0.0 0.0 1280.0 0.0 0.0 1230.0 75.5 76 35 12555.0 0.0 0.0 0.0 1280.0 0.0 0.0 1350.0 75.5 76 35 12555.0 0.0 0.0	2	, ,	•			•	•	• •	•	99
5 365.0 93.6 88.8 400.0 99.0 94.2 450.0 110.5 107 6 438.0 87.1 82.3 480.0 98.3 95.1 540.0 112.7 109 7 511.0 87.4 84.2 560.0 97.9 94.7 630.0 109.6 107 8 584.0 84.0 82.1 640.0 93.7 91.8 720.0 108.9 108 9 657.0 78.5 76.6 720.0 92.1 91.3 810.0 110.2 109 10 730.0 75.9 75.1 800.0 91.4 90.6 900.0 105.8 105 11 803.0 0.0 0.0 880.0 87.2 864.4 990.0 105.7 105 12 876.0 0.0 0.0 960.0 84.0 84.0 1080.0 106.3 106 13 949.0 0.0 0.0 1120.0 84.1 84.1 1170.0 104.5 105 14 1022.0 0.0 0.0 1120.0 81.3 81.3 1260.0 100.3 100 15 1095.0 0.0 0.0 1280.0 0.0 0.0 1440.0 100.7 101 17 1241.0 0.0 0.0 1360.0 0.0 0.0 1530.0 97.3 98 18 1314.0 0.0 0.0 1440.0 0.0 0.0 1530.0 97.3 98 18 1313.0 0.0 0.0 1680.0 0.0 0.0 1800.0 93.5 94 21 1533.0 0.0 0.0 0.0 1680.0 0.0 0.0 1800.0 93.5 94 22 1666.0 0.0 0.0 1760.0 0.0 0.0 1800.0 93.5 94 23 1679.0 0.0 0.0 1260.0 0.0 0.0 1250.0 89.7 90 24 1752.0 0.0 0.0 1260.0 0.0 0.0 1250.0 89.7 90 25 1825.0 0.0 0.0 1260.0 0.0 0.0 1270.0 89.7 90 24 1752.0 0.0 0.0 1260.0 0.0 0.0 1270.0 89.7 90 25 1825.0 0.0 0.0 1260.0 0.0 0.0 12250.0 80.2 81 29 2117.0 0.0 0.0 1240.0 0.0 0.0 12250.0 80.2 81 29 2177.0 0.0 0.0 1280.0 0.0 0.0 1230.0 75.5 76 35 12555.0 0.0 0.0 1280.0 0.0 0.0 1230.0 75.5 76 36 12628.0 0.0 0.0 12800.0 0.0 0.0 1350.0 75.5 76 37 12701.0 0.0 0.0 12800.0 0.0 0.0 1350.0 75.5 76 38 12774.0 0.0 0.0 0.0 1280		! !	•	•	• •	•	•		•	•
6 438.0 87.1 82.3 480.0 98.3 95.1 540.0 112.7 109 7 511.0 87.4 84.2 560.0 97.9 94.7 630.0 109.6 107 109 108 584.0 84.0 82.1 640.0 93.7 91.8 720.0 108.9 108 9 657.0 78.5 76.6 720.0 92.1 91.3 810.0 110.2 109 10 730.0 75.9 75.1 800.0 91.4 90.6 900.0 105.8 105 11 803.0 0.0 0.0 880.0 87.2 86.4 990.0 105.7 105 12 876.0 0.0 0.0 960.0 84.0 84.0 1060.0 106.3 106 13 949.0 0.0 0.0 1120.0 81.3 81.3 1260.0 100.3 100 15 1095.0 0.0 0.0 1200.0 73.2 73.8 1350.0 102.1 102 16 1168.0 0.0 0.0 1360.0 0.0 0.0 1440.0 100.7 101 17 1241.0 0.0 0.0 1360.0 0.0 0.0 1530.0 97.3 98 18 1314.0 0.0 0.0 1440.0 0.0 0.0 1800.0 93.5 94 22 1606.0 0.0 0.0 1600.0 0.0 1600.0 0.0 1800.0 93.5 94 22 1606.0 0.0 0.0 1760.0 0.0 0.0 1800.0 93.5 94 22 1606.0 0.0 0.0 1600.0 0.0 0.0 1800.0 93.5 94 22 1606.0 0.0 0.0 1760.0 0.0 0.0 1800.0 89.7 90 23 1679.0 0.0 0.0 1760.0 0.0 0.0 1260.0 90.4 91 25 1825.0 0.0 0.0 1760.0 0.0 0.0 1260.0 89.7 90 24 1752.0 0.0 0.0 1260.0 0.0 0.0 1260.0 82.1 83 30 1290.0 0.0 0.0 1260.0 0.0 12250.0 80.2 81 33 12263.0 0.0 0.0 12240.0 0.0 0.0 12400.0 0.0 12400.0 79.7 81 33 12263.0 0.0 0.0 12400.0 0.0 0.0 12400.0 79.7 81 33 12263.0 0.0 0.0 12400.0 0.0 0.0 12500.0 79.7 81 33 12263.0 0.0 0.0 12260.0 0.0 0.0 12300.0 79.7 81 33 12263.0 0.0 0.0 12260.0 0.0 0.0 12300.0 79.7 81 33 12263.0 0.0 0.0 12260.0 0.0 0.0 12300.0 79.7 81 33 12263.0 0.0 0.0	: -	: :	•		• •	•			•	•
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⁻ FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 1 (PITCH ANGLE: 19.9 DEG)

	+		· · · · · · · · · · · ·			DATA-1	POINT /	RUN				
+	! -+	BN-	-1 /	58 +		BN	-2 /	57	-	BN	-3 /	56
HN		F	SPL	SPLA	 -	F +	SPL	SPLA		F +	SPL	SPLA
1	ij	60.0	•	72.9	İ	•	103.1	,		•	107.3	
•	[]		89.0	72.9	ļ	•	95.0	78.9			104.2	90.8
•	!!		76.3	65.4	ļ.	210.0	92.1	81.2			100.3	91.7
•		(76.4	67.8	l	280.0	87.5	•		•	96.7	90.1
•	!		67.2	60.6	ļ		81.7	•		•	96.0	91.2
6		360.0	59.0	54.2	!	420.0				•	87.1	83.9
!			52.8	48.0	!	490.0	•			•	82.9	
1 9		480.0 540.0	54.3 50.8	51.1 47.6	!	560.0	•	61.4 42.7		640.0	80.0	78.1
10		600.0	0.0	•	!	630.0	•	: :		720.0 800.0	77.4	76.6 77.2
111	! !	660.0	0.0	•	1	770.0	•	•		•	78.0 66.1	65.3
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•	Н		0.0	:			•			1120.0	47.5	47.5
15	11	900.0	0.0	•		1050.0	•			1200.0	0.0	0.0
	П		0.0	•	•	1120.0	•			1280.0	0.0	0.0
*	٠,	1020.0	0.0	•	•	1190.0	•			1360.0	•	0.0
•		1080.0	0.0	•	•	1260.0	•			1440.0	•	0.0
•		1140.0	0.0	•	•	1330.0	•			1520.0	•	
•	• •	1200.0	0.0	•	•	1400.0	•			1600.0	•	
•	•	1260.0	0.0	•	•	1470.0	•			1680.0	•	
•		1320.0	0.0	•	•	1540.0	•			1760.0		0.0
•		1380.0	0.0	•	•	1610.0	•			1840.0		0.0
•	٠,	1440.0	0.0	•	•	1680.0	•			1920.0	•	0.0
•		1500.0	0.0			1750.0			- 1	2000.0		0.0
•		1560.0	0.0	•	•	1820.0	•			2080.0		0.0
•		1620.0	0.0		•	1890.0	•		•	2160.0		
28	ij	1680.0	0.0			1960.0				2240.0		
29	Ħ	1740.0	0.0	0.0	İ	2030.0	0.0	0.0	į	2320.0		0.0
30	H	1800.0	0.0	0.0		2100.0	0.0			2400.0		0.0
31	H	1860.0	0.0	0.0		2170.0	0.0	0.0 j	į	2480.0		
	11	1920.0	0.0	•	•	2240.0		0.0	Ì	2560.0	0.0	0.0
33	11	1980.0	0.0			2310.0		0.0	ĺ	2640.0	0.0	0.0
•	• •	2040.0				2380.0		0.0	١	2720.0	0.0	0.0
7		2100.0	0.0		•	2450.0		0.0		2800.0	0.0	0.0
•	• •	2160.0	0.0		•	2520.0			•	2880.0		0.0
	: :		0.0		•	2590.0		•		2960.0		
		2280.0				2660.0				3040.0		
1										3120.0		•
•	٠.	2400.0								3200.0		
+	++											
+	~ ~ ^ ^									 		•
 	UA 	orli (
1					-7				7			

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 2 (PITCH ANGLE: 19.9 DEG)

	+		M est est est est est est	-	DATA-I	POINT /	RUN			 إ
+	BN:	-1 / +	58 +	1	BN-	-2 /	57	l BN	-3 /	56
HN		SPL	SPLA		F	SPL	SPLA	F	SPL	SPLA
1 1	• •	100.4	74.2	į	•	105.3	79.1		107.5	
2	120.0	95.8	79.7	ļ	140.0	103.1			108.9	95.5
3	180.0	89.8	78.9	1	210.0	98.4	87.5		105.5	96.9
4	240.0	80.8	72.2	ļ	280.0	93.2		•	101.9	95.3
5	300.0	75.6	69.0	-	•	88.7	82.1	•	99.3	94.5
6	360.0	68.0	63.2		420.0	83.8		•	100.0	96.8
7 8	420.0	61.5	56.7	!	490.0	81.1	77.9	560.0 640.0	97.1	93.9
9	480.0 540.0	59.3	56.1 46.8	1	560.0 630.0	76.1 67.9			92.9	91.0 87.1
10	600.0	50.0	0.0	!	700.0	65.2	:	720.0 800.0	87.9 87.3	86.5
111	660.0	0.0	0.0	!	770.0	58.9	58.1	880.0	85.4	
12	720.0	0.0	0.0	!	840.0	0.0	: :	960.0	81.0	81.0
	780.0	0.0	0.0	-	910.0	•		1040.0	77.0	77.0
14	840.0	0.0	0.0	i	980.0	•	•	1120.0	73.7	73.7
15	900.0	0.0	0.0	l	1050.0			1200.0		72.4
16	960.0	0.0	0.0		1120.0			1280.0	69.6	70.2
17	1020.0	0.0	0.0	•	1190.0	•		1360.0	•	65.1
	1080.0	0.0	0.0		1260.0	0.0		1440.0		59.6
•	1140.0	0.0	•	•	1330.0	•		1520.0	0.0	0.0
	1200.0	0.0	0.0	•	1400.0	0.0	•	1600.0	•	0.0
	1260.0	0.0	0.0	•	1470.0	0.0	,	1680.0	•	0.0
	1320.0	0.0	0.0	•	1540.0	•	•	1760.0	•	0.0
	1380.0	0.0	0.0	•	1610.0			1840.0		0.0
	1440.0	0.0	•	•	1680.0	•		1920.0	•	0.0
	1500.0	0.0	•	•	1750.0			2000.0	•	0.0
	1560.0	0.0	•	•	1820.0	•		2080.0	•	i o.o i
	1620.0	0.0	•	•	1890.0			2160.0	•	j 0.0 j
	1680.0	0.0	•	•	1960.0			2240.0	0.0	j 0.0 j
29	1740.0	0.0	0.0	İ	2030.0	0.0	0.0	2320.0	0.0	0.0
30	1800.0	0.0	0.0	ĺ	2100.0	0.0	0.0	2400.0	0.0	0.0
31	1860.0	0.0	0.0	ĺ	2170.0	0.0	0.0	2480.0	0.0	0.0
	1920.0	•	-	1	2240.0	0.0	•	2560.0	•	0.0
	1980.0	0.0	0.0	1	2310.0	0.0	0.0	2640.0	0.0	0.0
•	•	0.0	:	•	2380.0		:	2720.0		0.0
	2100.0	•	-	•	2450.0		: :	2800.0	•	0.0
	2160.0	•	:	•	2520.0		:	2880.0	•	0.0
	•	•	•	•	2590.0	•	•	2960.0	• ,	0.0
	2280.0			•	2660.0		•	3040.0	•	•
	2340.0			•	•		•	3120.0	•	•
	2400.0	•	•	•	•		•	3200.0	-	
+	 - 	-	-	•	•	-		-	-	
0		102.0	83.5	Ì]	108.1	92.5	+ 	113.3	104.0
+		+- <i></i>		+	t		+ -	+	+	+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 3 (PITCH ANGLE: 19.9 DEG)

	+			-	DATA-	POINT /	RUN	-			
+	BN	-1 /	58 		BN:	-2 /	57 	 -	BN·	-3 / +	56
HN	F	SPL	SPLA	<u> </u>	F	SPL	SPLA	 	F	SPL	SPLA
•	• •	102.4	76.2	Ì		107.2	81.0	ļ	•	110.6	88.1
•	120.0	96.9	80.8	!		104.8	88.7	!	•	109.6	96.2
:	180.0	90.1	79.2	ļ	210.0	98.0	87.1	ļ	•	107.9	99.3
4	240.0	83.3 72.8	74.7 66.2	ļ	280.0 350.0	94.6	86.0	ļ	•	104.6	98.0
6	300.0 360.0	74.0	69.2	ł	420.0	90.5 89.0	83.9 84.2	ŀ	•	104.6 102.1	99.8 98.9
		66.5	61.7	ł	420.0	82.3	79.1	l	560.0	96.9	93.7
8	420.0 480.0	53.2	50.0	!	560.0	76.5	73.3	1	640.0	97.3	95.4
9	540.0	0.0	0.0	ļ	630.0	75.0	73.3	!	720.0	•	93.4 93.8
10	[] 600.0	0.0	0.0	i	700.0	69.7	67.8	l	800.0	91.4	90.6
111	[] 660.0	0.0	0.0	l	770.0	64.5	63.7	ľ	880.0	88.1	87.3
12	720.0	0.0	0.0	l	840.0	62.1	61.3	ŀ	960.0	86.8	86.8
13	780.0	0.0	0.0	i	910.0	55.2	•	ŀ	1040.0	83.3	83.3
14	840.0	0.0	0.0	i	980.0	51.8	•	•	1120.0	79.5	79.5
15	900.0	0.0	0.0	i	1050.0	0.0	•	•	1200.0	76.1	76.7
16	960.0	0.0	0.0	•	1120.0	0.0			1280.0	76.1	76.7
•	1020.0	0.0	•	•	1190.0	0.0	•	•	1360.0	70.6	71.2
18	11080.0	0.0	0.0	İ	1260.0	0.0	•	•	1440.0	64.9	65.9
19	1140.0	0.0	0.0	İ	1330.0	0.0	0.0	Ì	1520.0	65.0	66.0
20	11200.0	0.0	0.0	ĺ	1400.0	0.0	0.0	Ì	1600.0	63.7	64.7
21	1260.0	0.0	0.0	1	1470.0	0.0	0.0	ĺ	1680.0	61.2	62.2
22	1320.0	0.0	0.0	1	1540.0	0.0	0.0	ĺ	1760.0	58.7	59.7
23	1380.0	0.0	0.0	•	1610.0	0.0	0.0	l	1840.0	56.5	57.7
24	1440.0	0.0	0.0	•	1680.0	0.0	•	•	1920.0	•	0.0
25	1500.0	0.0	0.0	•	1750.0	0.0	•	•	2000.0	•	0.0
26	1560.0	0.0	0.0	l	1820.0	0.0	•	•	2080.0	•	0.0
27	1620.0	0.0	0.0	ļ	1890.0	0.0	•	•	2160.0	•	0.0
28	1680.0	0.0	0.0	ļ	1960.0	0.0	•	•	2240.0	0.0	0.0
29	1740.0	0.0	0.0	ļ	2030.0	0.0	•	•	2320.0	0.0	0.0
30	1800.0	0.0	0.0	ļ	2100.0	0.0		:	2400.0	0.0	0.0
1	1860.0	0.0	0.0	•	2170.0	0.0		-	12480.0	0.0	0.0
32	1920.0	0.0	0.0	•	2240.0 2310.0	0.0	•	•	2560.0	0.0	0.0
33	1980.0 2040.0	0.0	0.0	-	2310.0 2380.0	0.0 0.0		:	2640.0 2720.0	0.0	0.0
35	[[2100.0	0.0	0.0	•	2450.0	0.0	•	:	2720.0 2800.0	0.0	0.0
36	2160.0	0.0	0.0	•	2520.0	0.0	•	-	2880.0	0.0	0.0 0.0
37	2220.0	0.0	0.0	•	2590.0	0.0	1	•	2960.0	0.0	0.0
•	2280.0	0.0	0.0	•	2660.0	0.0	1	:	3040.0	0.0	0.0
•	12340.0	0.0	0.0	•	2730.0	0.0	1	-	3120.0		0.0
•	2400.0	0.0	•	•	2800.0	•	•	•	3200.0	•	0.0
,	++	•	 	•	•	•	-	•	+	•	,
+		+	+	+-	+		+	1	+	+	++
1 0	OASPL	103.7				109.7					106.8
+		 	 	+	t	t	+	+ -		+ <u>-</u> -	++

⁻ FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

	,	 	De gas del 20, des que de c			DATA-1	POINT /	RUN			<u>+</u> !
+		BN-	-1 /	58 +		BN-	-2 /	57	BN	-3 /	56
	IN	F	SPL	SPLA	<u> </u>	F	SPL	SPLA	F	SPL	SPLA
į	1	•	103.9	77.7	į,	•	108.9	82.7	•	113.7	91.2
ļ	2	120.0	97.9	81.8	!	•	105.6	89.5	•	109.7	96.3
-	3	180.0	91.0	80.1	ļ	210.0	99.3	88.4	•	•	100.9
ļ	4	240.0	84.7	76.1			97.8	89.2	•	•	100.2
!	5	300.0	78.1	71.5	ļ	350.0	91.4	84.8	•	103.4	, .
	6	360.0	71.7	66.9	!	420.0	88.2	83.4	•	101.9	98.7
!	7	420.0	68.7	63.9	!	490.0	84.4	81.2	•	100.1	96.9
ļ	8	480.0	59.8	56.6	ļ	560.0	79.6	76.4	•	98.2	96.3
Ι,	9	540.0	41.3	38.1		630.0	75.4	73.5	720.0	94.2	93.4
•	10	600.0	0.0	0.0	-	700.0	70.6	68.7	800.0	92.9	92.1
	l1 l2	660.0	0.0	0.0	ł	770.0	65.5 61.3	64.7 60.5	880.0 960.0	90.5	89.7 85.2
	LZ L3	720.0 780.0	0.0	0.0	l	840.0 910.0	58.0		1040.0	•	84.5
•	14	840.0	0.0	0.0	-	980.0	56.7	•	1120.0	84.5 82.3	82.3
•	L4 L5	900.0	0.0	0.0	-	1050.0	0.0	•	1200.0	78.5	79.1
•	16	960.0	0.0	0.0		1120.0	0.0		1280.0	74.4	75.0
•	LO 1 L7	1020.0	0.0	0.0	•	1120.0	0.0		1360.0	74.4	74.9
•	l8	1020.0	0.0	0.0	•	1260.0	0.0		1440.0	70.7	
•	LO	1140.0	0.0	0.0	•	1330.0	0.0	, ,	1520.0	66.1	67.1
•	•	1200.0	0.0	0.0	•	1400.0	0.0		1600.0	62.9	63.9
•		1260.0	0.0	0.0	•	1470.0	•	,	1680.0	60.7	61.7
•	•	1320.0	0.0	0.0	•	1540.0	•		1760.0	•	60.8
•		1380.0	0.0	0.0	•	1610.0	•		1840.0	54.8	56.0
•		1440.0	0.0	0.0	•	1680.0	•	•	1920.0	0.0	0.0
•	•	1500.0	0.0	•	•	1750.0	0.0		2000.0		0.0
•		1560.0	0.0	-	•	1820.0	0.0		2080.0		0.0
		1620.0	0.0	•	•	1890.0	0.0	•	2160.0	•	0.0
•	•	1680.0	0.0		•	1960.0	0.0		2240.0	•	0.0
•		1740.0	0.0		•	2030.0	0.0	•	2320.0	•	0.0
1 3	•	1800.0	0.0	•	•	2100.0	0.0	•	2400.0	0.0	0.0
•		1860.0	•		•	2170.0		: :	2480.0		•
•		1920.0	•			2240.0	•	: :	2560.0	,	
		1980.0			ĺ	2310.0	0.0	0.0	2640.0		•
		2040.0	i	:	Ì	2380.0	0.0	:	2720.0	•	•
1 3	35 j	2100.0	0.0	0.0	Ĺ	2450.0	0.0	0.0	2800.0	•	
3	36 j	2160.0	0.0	0.0	1	2520.0	0.0	0.0	2880.0	0.0	0.0
3	37	2220.0	0.0	0.0		2590.0	0.0	0.0	2960.0	0.0	0.0
		2280.0							3040.0		
3	39	2340.0	0.0						3120.0		
•		2400.0	•		•				3200.0	•	•
•		•	-	·	-				+	-	-
+			=	_				-	+	-	-
	0.	ASPL	105.1	85.7	1		111.2	95.2		117.2	107.6
+				r	+-		···	 	+	+	h+

F - FREQUENCY HZ SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 5 (PITCH ANGLE: 19.9 DEG)

	+ 			-	DATA-1	POINT /	RUN			+
+	 BN:	-1 /	58		BN·	-2 /	57	BN	-3 /	56 ++
HN	F	SPL	SPLA	 -	F	SPL	SPLA	F	SPL	SPLA
1 1	•	105.1	78.9	į	:	110.8	84.6	•	116.5	94.0
2]	120.0	99.0	82.9	ļ	140.0	106.4	90.3	160.0	110.9	97.5
3	180.0	91.1	80.2	ļ	210.0	97.8	86.9	•	108.3	99.7
4	240.0	81.5	72.9	ļ	280.0	97.0	88.4	•	•	104.3
5	300.0	82.0	75.4	!	350.0	95.7	89.1	400.0	•	101.5
6	360.0	74.3	69.5	ļ	420.0	87.6	82.8	480.0	98.4	95.2
7	420.0	59.3	54.5	Ţ	490.0	80.5	77.3	560.0	99.9	96.7
8	480.0	59.0	55.8	1	560.0	80.5	77.3	640.0	98.4	96.5
9	540.0	55.9	52.7	1	630.0	76.2	74.3	720.0	94.3	93.5
10	600.0	49.7	47.8	ļ	700.0	70.2	68.3	800.0	90.2	89.4
11 12	660.0 720.0	0.0	0.0	-	770.0	64.3	63.5	880.0	87.4	86.6
13	780.0	0.0	0.0	!	840.0 910.0	59.5	58.7 57.3	960.0	86.9	86.9
13	840.0	0.0	0.0	-	910.0	57.3	0.0	1040.0 1120.0	83.9	83.9
15	900.0	0.0	0.0	1	1050.0	0.0	0.0	1120.0	78.9 77.2	78.9 77.8
16	960.0	0.0	0.0	ł	1120.0	0.0	0.0	1280.0	77.0	77.6 77.6
17	1020.0	0.0	0.0		1120.0	0.0		1360.0	72.2	77.8
	1020.0	0.0	0.0	ł	1260.0	0.0	0.0	1440.0	69.5	70.5
	1140.0	0.0		•	1330.0	0.0	•	1520.0	67.9	68.9
	1200.0	0.0	0.0	l	1400.0	0.0		1600.0	64.9	65.9
	1260.0	0.0	0.0	i	1470.0	0.0		1680.0	61.0	62.0
	1320.0	0.0	0.0		1540.0	0.0	•	1760.0	62.3	63.3
	1380.0	0.0	0.0	•	1610.0	0.0		1840.0	58.8	60.0
	1440.0	0.0	0.0	•	1680.0	0.0		1920.0	0.0	0.0
	1500.0	0.0	0.0	•	1750.0	0.0	•	2000.0	0.0	0.0
	1560.0	0.0	0.0	•	1820.0	0.0	•	2080.0	0.0	0.0
	1620.0	0.0	0.0	•	1890.0	0.0	•	2160.0	0.0	0.0
	1680.0	0.0	0.0	•	1960.0	0.0	•	2240.0	0.0	0.0
	1740.0	0.0	0.0	•	2030.0	0.0	•	2320.0	0.0	0.0
30	1800.0	0.0	0.0	•	2100.0	0.0	•	2400.0	0.0	0.0
	1860.0	•	0.0		2170.0			2480.0		
32	1920.0	0.0			2240.0		:	2560.0	•	•
33	1980.0	0.0	0.0	ĺ	2310.0	0.0	0.0	2640.0		•
	2040.0		0.0	İ	2380.0	0.0	0.0	2720.0	0.0	j 0.0 j
	2100.0	•			2450.0	0.0	0.0	2800.0	0.0	0.0
36	2160.0	0.0	0.0	1	2520.0	0.0	0.0	2880.0	0.0	0.0
	2220.0			•	2590.0	•	•	2960.0	•	0.0
	2280.0	•			2660.0	•	•	3040.0	•	
	2340.0	•						3120.0		
	2400.0							3200.0		
								+		
								+		
	ASPL							- 		108.8
•			•	•	•	,			,	,

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 6 (PITCH ANGLE: 19.9 DEG)

	+ 			DATA-1	POINT /	RUN			
++	BN-	-1 /	58	BN-	·2 /	57	BN	-3 /	56
HN	F	SPL	SPLA	j F	SPL	SPLA	F	SPL	SPLA
1 1	60.0	59.1		70.0	55.3	29.1	80.0	64.9	
2	120.0	50.9		140.0	0.0		160.0	54.6	41.2
3	•	50.8		210.0	0.0		240.0	57.8	49.2
4	240.0	44.9 53.9	:	280.0 350.0	0.0		320.0	0.0 0.0	0.0
5	360.0	41.6		350.0 420.0	0.0		•	0.0	0.0
1 7 1	420.0	36.7		490.0	0.0		480.0 560.0	0.0	0.0
8	480.0	0.0	•	560.0	0.0	: :	640.0	0.0	0.0
9	540.0	0.0	•	630.0	0.0		720.0	0.0	0.0
10	600.0	0.0	•	700.0	0.0		800.0	0.0	0.0
11	660.0	0.0		770.0			880.0	0.0	0.0
12	720.0	0.0	•	840.0	0.0		960.0	0.0	0.0
13	780.0	0.0		910.0	0.0		1040.0	0.0	0.0
14	840.0	0.0	•	980.0			1120.0	0.0	0.0
: :	900.0	0.0		1050.0	0.0		1200.0	0.0	0.0
16	960.0	0.0	•	1120.0			1280.0	0.0	0.0
	1020.0	0.0		1190.0			1360.0	0.0	0.0
	1080.0	0.0		1260.0			1440.0	0.0	0.0
	1140.0	0.0	•	1330.0	'		1520.0	0.0	0.0
j 20 j	1200.0	0.0	•	1400.0	0.0		1600.0	0.0	0.0
21	1260.0	0.0	0.0	1470.0	0.0		1680.0	0.0	0.0
22	1320.0	0.0	0.0	1540.0	0.0	0.0	1760.0	0.0	0.0
23	1380.0	0.0	0.0	1610.0	0.0	0.0	1840.0	0.0	0.0
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1920.0	0.0	0.0
	1500.0	0.0	0.0	1750.0	0.0	0.0	2000.0	0.0	0.0
	1560.0	0.0	0.0	1820.0	0.0		2080.0		0.0
	1620.0	0.0		1890.0	0.0		2160.0		0.0
	1680.0	0.0	•	1960.0			2240.0		0.0
	1740.0	0.0		2030.0			2320.0		0.0
	1800.0		•	2100.0	0.0	,	2400.0		0.0
	1860.0	•		2170.0			2480.0	•	
1 :	1920.0			2240.0	0.0		2560.0		
1 :	1980.0		•	2310.0			2640.0	•	: :
: :	2040.0	0.0	:	2380.0			2720.0		
1 1	2100.0		: :	2450.0	0.0		2800.0	•	
	2160.0		•	2520.0	0.0		2880.0		
	2220.0	0.0	•	2590.0			13040.0		_
	2280.0			2660.0 2730.0			3040.0		
	2340.0			2800.0					
				12000.0					
0	ASPL	61.3	49.0		55.3	29.1		66.0	50.5
+			 	+		-	+	+	

F - FREQUENCY HZ SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 7 (PITCH ANGLE: 19.9 DEG)

				- •	DATA-I	POINT /	RUN	, as, ar, as as as as as as as as		+
+	l BN-	-1 /	58 		BN·	-2 /	57	BN·	-3 /	56
HN	F	SPL	SPLA	 	F	SPL	SPLA	F	SPL	SPLA
1	: :	105.1	78.9	Ì	•	111.3		•	116.6	
•	120.0	93.1 83.9	77.0	ļ	•	100.2	84.1		107.4	94.0 95.5
	180.0 240.0	73.8	73.0 65.2	ļ	210.0 280.0	93.1 75.0	82.2 66.4	320.0	104.1 94.4	
	240.0 300.0	73.6 63.7	57.1	 	280.0 350.0	76.4		1 400.0	•	
	360.0	61.4	56.6	1	•	65.4	60.6	480.0	•	
7	1 420.0	0.0	0.0		490.0	67.0	63.8	560.0	•	78.5
:	480.0	0.0	•	! !	560.0	62.2	59.0	640.0	•	71.6
:	540.0	0.0	•	ŀ	630.0	0.0	:	720.0	•	70.8
-	600.0	0.0	7]	700.0	0.0	: :	800.0	•	70.0
•	660.0	0.0	•	i	770.0	0.0	! !	880.0	•	
12		0.0	•	i	840.0	•		960.0	•	
1	780.0	0.0	•	i	910.0	•		1040.0	•	0.0
:	840.0	0.0	•	i	980.0	•	• , •	1120.0	•	i 0.0 i
15	jj 900.0	0.0	•	Ì	1050.0	•		1200.0	•	0.0
16	960.0	0.0	0.0	İ	1120.0	0.0	0.0	1280.0	0.0	0.0
17	1020.0	0.0	0.0	Ì	1190.0	0.0	0.0	1360.0	0.0	0.0
18	1080.0	0.0	0.0	į	1260.0	0.0	0.0	1440.0	0.0	0.0
•	1140.0	0.0	•	•	1330.0	•	, ,	1520.0		0.0
•	1200.0	0.0	•	•	1400.0	•		1600.0	•	0.0
•	1260.0	0.0	•	•	1470.0	•	. ,	1680.0	•	0.0
•	1320.0	0.0	•	•	1540.0	•	•	1760.0	•	0.0
•	1380.0	0.0	•	•	1610.0	•		1840.0	•	0.0
•	1440.0	0.0	•	•	1680.0	•		1920.0	•	0.0
25	1500.0	0.0	0.0	•	1750.0	•	•	2000.0	0.0	0.0
26	1560.0	0.0	0.0	•	1820.0	0.0	: :	2080.0	0.0	0.0
27	1620.0	0.0	•	ļ	1890.0	0.0	0.0	2160.0	0.0	0.0
28	1680.0	0.0	•	ļ	1960.0	0.0	0.0	2240.0	0.0	0.0
29	1740.0 1800.0	0.0	0.0	-	2030.0 2100.0	0.0 0.0	0.0	2320.0 2400.0	0.0	0.0
:	11	0.0		ļ		0.0	•	2400.0 2480.0	0.0	0.0
31	1860.0 1920.0	0.0	0.0 0.0	l	2170.0 2240.0	0.0		2560.0	0.0 0.0	0.0 0.0
33	1980.0	0.0	0.0	1	2310.0	0.0	:	2500.0	0.0	0.0 0.0
34	2040.0	0.0	0.0	-	2380.0	0.0	:	2720.0	0.0	0.0
35	2100.0	0.0	0.0	1	2450.0	0.0	: :	2800.0	0.0	0.0
36	2160.0	0.0	0.0	i	2520.0	0.0		2880.0	0.0	0.0
37	2220.0	0.0	0.0	ì	2590.0	0.0		2960.0	0.0	0.0
38	2280.0	0.0	0.0	i	2660.0	0.0	: :	3040.0	0.0	0.0
39	12340.0		0.0	•	2730.0	0.0		3120.0	•	0.0
•	2400.0	0.0	•	•	2800.0	0.0		3200.0	•	0.0
<u> </u>	++	+	+	÷	•	•			•	+
+		+	+	+	•	•		- 	+	++
1	OASPL	105.4	•	•	•		88.8		117.3	
+		+	+	+	+	+	t	 	+	t

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 9 (PITCH ANGLE: 19.9 DEG)

	+ !			DATA-	POINT /	RUN			
+	 BN	-1 /	58	l BN	-2 /	57	l BN	-3 /	56
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
1	60.0	105.4	79.2	70.0	108.7	82.5	80.0	113.5	91.0
2	120.0	97.4	81.3	140.0	106.0	89.9	160.0	107.9	94.5
3	180.0	89.6	78.7	210.0	95.5	84.6	240.0	106.6	98.0
4	240.0	77.8	69.2	280.0	98.5	89.9	320.0	107.7	101.1
5	300.0 360.0	79.9 75.2	73.3 70.4	350.0	93.4 84.6	86.8	400.0	102.8	98.0 96.8
1 7	420.0	66.1	61.3	420.0	81.5	79.8	480.0	100.0	97.1
8	420.0	51.5	61.3 48.3	490.0 560.0	80.7	78.3 77.5	560.0 640.0	100.3	93.3
9	540.0	0.0	0.0	630.0	74.7	72.8	720.0	95.2 91.7	90.9
10	600.0	0.0	0.0	700.0	68.5	66.6	800.0	91.8	91.0
111	660.0	0.0	0.0	770.0	0.0	0.0	880.0	88.5	87.7
12	720.0	0.0	0.0	840.0	0.0	0.0	960.0	82.6	82.6
13	780.0	0.0	0.0	910.0	0.0	0.0	1040.0	84.2	82.0 84.2
14	840.0	0.0	0.0	980.0	0.0	0.0	1120.0	78.7	78.7
15	900.0	0.0	0.0	1050.0	0.0	0.0	1200.0	79.0	79.6
16	960.0	0.0	0.0	11120.0	0.0	0.0	1280.0	71.7	72.3
17	1020.0	0.0	0.0	11120.0	0.0	0.0	1360.0	69.8	70.4
18	1080.0	0.0	0.0	1260.0	0.0	0.0	1440.0	70.0	71.0
19	1140.0	0.0	0.0	1330.0	0.0	0.0	1520.0	63.9	64.9
	1200.0	0.0	0.0	1400.0	0.0	0.0	1600.0	63.2	64.2
21	1260.0	0.0	0.0	1470.0	0.0	0.0	1680.0	0.0	0.0
•	1320.0	0.0	0.0	1540.0	0.0	0.0	1760.0	0.0	0.0
	1380.0	0.0	0.0	1610.0	0.0	0.0	1840.0	0.0	0.0
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1920.0	0.0	0.0
25	1500.0	0.0	0.0	1750.0	0.0	i 0.0 i	2000.0	0.0	j 0.0 j
26	1560.0	0.0	0.0	1820.0	0.0	0.0	2080.0	j 0.0	0.0
27	1620.0	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0
28	1680.0	0.0	0.0	1960.0	0.0	0.0	2240.0	0.0	j 0.0 j
29	1740.0	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0
30	1800.0	0.0	0.0	2100.0	0.0	0.0	[2400.0	0.0	0.0
31	1860.0	0.0	0.0	2170.0	0.0	0.0	2480.0	0.0	0.0
	1920.0	0.0		2240.0	0.0	•	2560.0	0.0	0.0
•	1980.0	0.0	•	2310.0	0.0		2640.0	:	0.0
	2040.0	0.0	•	2380.0	0.0		2720.0	•	0.0
	2100.0	0.0		2450.0	0.0	•	2800.0	•	0.0
	2160.0	0.0	•	2520.0	•	•	2880.0	•	:
•	2220.0	0.0	•	2590.0	•		2960.0	•	:
•	2280.0	0.0	•	2660.0	•		3040.0	•	
	2340.0	•	•	2730.0	•		3120.0	•	•
	2400.0	•	•	2800.0	•		3200.0	•	0.0
	h+								†
J (•	85.3	•	111.0				106.6
7		T	T	L-1	T	,		,	

- FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 1

(PITCH ANGLE: 19.9 DEG)

	DATA-POINT / RUN								
++	l BN-	7 /	55 (BN	-4 /	54	BN	-5 /	53
HN	F	SPL	SPLA	F	SPI,	SPLA	F	SPL	SPLA
1 1	48.8	83.3		•	101.1	74.9	•	104.5	
2	•	74.6		140.0	92.3	76.2		102.9	
3	•	0.0		210.0	91.9	81.0	•	99.2	•
4	: :	0.0		•	86.4	77.8	•	96.2	
5 6	292.8			•	83.4	76.8	•	95.4	
7 1				420.0	77.3		480.0	•	
8	390.4		•	490.0 560.0		63.5 0.0	•	82.8	•
9 1		0.0		•	•	0.0	•	•	
10	488.0	0.0		630.0 700.0	•	0.0	•	•	
11	536.8			770.0	•	0.0	•	•	
12	585.6			840.0	•	0.0	•	•	
13	: :	0.0		910.0	•		1040.0		0.0
14				980.0	•		1120.0	•	0.0
15	:	0.0		1050.0	•		1200.0		0.0
16	•			1120.0	•		1280.0	•	0.0
1 17 1	: : :			1190.0	•	, ,	1360.0		0.0
1 - 1	878.4			1260.0	•		1440.0	•	0.0
19	927.2		,	1330.0	•		1520.0	•	0.0
i 20 i	976.0			1400.0	•		1600.0	•	0.0
•	1024.8			1470.0	•		1680.0	•	0.0
	1073.6			1540.0	•		1760.0	•	
23	1122.4	0.0		1610.0	•	•	1840.0	•	,
24	1171.2	0.0	0.0	1680.0	0.0	0.0	1920.0	0.0	
25	1220.0	0.0	0.0	1750.0	0.0	0.0	2000.0	υ.0	0.0
26	1268.8	0.0	0.0	1820.0	0.0	0.0	2080.0	0.0	0.0
	1317.6	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0
	1366.4	0.0	0.0	1960.0	•	0.0	2240.0	0.0	0.0
	1415.2	0.0		12030.0	•	•	2320.0		0.0
1	1464.0	0.0	:	2100.0	0.0	:	2400.0	•	0.0
	1512.8			2170.0	0.0	•	2480.0	•	
7 7	1561.6	0.0		2240.0	0.0		2560.0	•	: :
•	1610.4	0.0		2310.0	0.0		2640.0	•	: :
	1659.2	0.0		2380.0	0.0	: :	2720.0	•	•
	1708.0	0.0		2450.0	0.0		2800.0	•	
•	1756.8	0.0		2520.0	0.0	:	2880.0	•	
•	1805.6	0.0		2590.0	0.0		2960.0		
	1854.4	0.0	•	2660.0	0.0		3040.0	•	
	1903.2 1952.0			2730.0			3120.0	•	•
				2800.0					
+++++									
			57.5			85.1			96.8
+									

F - FREQUENCY HZ

SPL - SOUND PRASSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 2 (PITCH ANGLE: 19.9 DEG)

	+	DATA-POINT / RUN										
	BN	BN-6 / 51			51 BN-61 /			52				
HN	 F	SPL	SPLA		F	SPL	SPLA	F	SPL	SPLA		
1	• •	112.3	93.2	ij	93.3	112.8	93.7	į	İ	į		
2	180.0	107.9	97.0	!!	186.6	120.8	109.9	!	!			
3	270.0	112.2	103.6	IJ	279.9	113.2	104.6	!		!		
4	360.0	1112.9	108.1	!!	373.2	115.1	110.3					
5	450.0	1112.0	108.8	!!	466.5	116.0	112.8					
6	540.0	112.1	108.9	!!	559.8	113.7	110.5		į	ļ		
7	630.0	1109.6	107.7	!!	653.1	113.9	112.0	1				
8	720.0	106.9	106.1	Н	746.4	111.0	110.2		1			
9	810.0	106.9	106.1	!!	839.7	113.1	1112.3	1				
10	900.0	1107.2	107.2	! !	933.0	111.8	111.8		!			
11 12	990.0 1080.0	104.2 101.4	104.2 101.4	! !	1026.3 1119.6	109.4	109.4	1	ļ	 		
1 13	1000.0	101.4	102.3		1212.9	107.9	107.9	1] i	! !		
14	11/0.0	101.7	102.3		1306.2	107.7 107.7	108.3 108.3	1	! !			
15	11350.0	98.8	99.4	 	1399.5	107.7	106.5	1] i		
16	1440.0	96.1	97.1	1 I	1492.8	104.4	105.4	1	i 			
17	1530.0	94.1	95.1	ii	1586.1	103.3	104.3	1				
18	11620.0	93.5	94.5	•	1679.4	100.3	101.3	i	i	i		
19	1710.0	90.6	91.6		1772.7	99.4	100.4			; 		
20	1800.0	87.1	88.3		1866.0	96.7	97.9	i	í	i		
21	189C.0	86.4	87.6		1959.3	98.8	100.0	j		i		
22	1980.0	87.9	89.1	• •	2052.6	96.0	97.2	ì	i	i i		
23	2070.9	84.1	85.3		2145.9	93.9	95.1	i	i	i		
24	2160.0	81.0	82.2	• •	2239.2	92.8	94.1	i	i	i		
25	2250.0	80.8	82.1	H	2332.5	92.6	93.9	İ	İ	i i		
j 26	2340.0	80.5	81.8	Ħ	2425.8	92.3	93.6	İ	j i	į į		
27	2430.0	75.9	77.2	П	2519.1	88.8	90.1	İ	ĺ	İ		
28	2520.0	74.2	75.5	П	2612.4	91.2	92.5		1			
29	2610.0	77.4	78.7	П	2705.7	90.5	91.8			ĺ		
30	2700.0	75.4	76.7	П	2799.0	87.6	88.9	1	1			
	2790.0	70.3	•		2892.3	•	86.3	ļ				
•	2880.0	•	•		2985.6	86.8	•					
33	2970.0	•	•	: :	3078.9	•	:	ļ	ļ			
34	3060.0	•			3: 7.2	83.5	: :					
•	3150.0	•	0.0			81.5	82.7	ļ	ļ			
•	3240.0	•	•			83.4	84.6	ļ	ļ.	!		
•	3330.0	•			3452.1		: :	1	!			
•	3420.0	•	•		3545.4		79.5		ļ			
•	3510.0	•	•		3638.7	•		į				
40	3600.0	•	•		3732.0	•	-	l de se	1			
+++++++												
OASPL 120.9 117.3 125.7 121.9												
÷												

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTEL FOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 3 (PITCH ANGLE: 19.9 DEG)

	+			DATA-	POINT /	RUN			+
	l BN	-6 /	51	ll BN	1-61 /	52		.	
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
1 1	90.0	113.5	94.4	93.3	114.7	95.6			
2	11 180.0	112.2	101.3	186.6	113.1	102.2		į	İ
3	1 270.0	112.5	103.9	279.9	114.8	106.2	11]	
4] 360.0	113.3	108.5	373.2	117.4	112.6		1	
5	450.0	112.9	109.7	466.5	117.1	113.9	11	1	
6	•	•	107.3	559.8	•	111.0	11	1	
7	: :	•	109.8	653.1	•	114.0	Ц	1	
8	* *	:		746.4		115.6	11	İ	1
9		•	109.2	839.7	•	113.8		!	
10	• •	•	109.2	933.0	114.0	•	11]	
11	: :	•	•	11026.3	•	113.3			
12	• •	•	•	11119.6	•	110.8		!	
13	: :	•	•	1212.9	7	112.0			
14	• •	•	•	1306.2	1111.0	111.6			
15	• •	•	•	1399.5	108.0	108.6	! !	!	
16	• •	•	•	1492.8	107.1	108.1		ļ	
17	11530.0	•	•	11586.1	107.5	108.5	<u> </u>	!	
18	1620.0	•	•	1679.4	106.8	107.8		İ	
19	1710.0	96.8	97.8	1772.7	102.8	103.8	ļ <u>ļ</u>	1	
20	1800.0	93.1	94.3	1866.0	103.1	104.3		!	į
21	1890.0	94.0	95.2	11959.3	103.5	104.7	ij	[
22	1980.0	92.8	94.0	2052.6	101.9	103.1		!	[
23	1 2070.0	89.7	•	2145.9	99.6	100.8		!	
24	2160.0	88.7	89.9	2239.2	100.5	101.8			
25	2250.0	88.9	90.2	2332.5	98.5	99.8		ļ.	!!
26	2340.0	85.3	86.6	2425.8	96.8	98.1		!	!!!
27	2430.0	84.1	85.4	2519.1	97.1	98.4		ļ	!
28	2520.0	83.8	85.1	2612.4	97.1	98.4		!	!
29	2610.0	82.9	84.2	2705.7	95.2	96.5	! !	!	
30	112700.0	80.3	81.6	112799.0	94.6	95.9	<u> </u>]]
•	112790.0	78.8		2892.3	•	•]]	ļ.	!!!
•	112880.0	80.6	•	2985.6	94.7	95.9	 	j]
•	2970.0 3060.0	77.1	78.3	3078.9		94.2	 	<u> </u>	! !
35	[[3050.0	78.0 74.5	79.2	3172.2 3265.5	91.0	92.2	 	l :	!
,	13240.0	73.1	75.7 74.3	13358.8	91.7	92.9		} 1	\
•	113330.0	75.0	-	3350.0	:	:	 	!	! !
•	113420.0	72.5	1	3432.1	90.2	91.4 88.8		! 	i
•	• •	•	•	3545.4	•	•	 	; 	}
•	113600.0	•	•	[[3732.0	•	89.9	l 	! 	
•	113000.0	•	1 0.0 4	• •	+	+	 	 	;
+		+		• •	+	+	, , 	, +	,
i	OASPL	1122.5	119.4	• •	•	124.5	11	Ī	
•		•	•		•	•	 - 	, +	:
									•

F - FREQUENCY HZ SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 2 (PITCH ANGLE: 19.9 DEG)

	+				DATA-1	POINT /	RUN	• •			
4	 	N-7 /	55		BN-	-4 /	54		BN	-5 /	53
HN	F	SPL	SPLA		F	SPL	SPLA	 -	F	SPL	SPLA
1	48.8	•	58.8			104.8	78.6	Ì	•	107.7	85.2
2	97.6	•	60.3	ļ	•	100.9	84.8	ļ	•	108.1	94.7
] 3	146.4	•	59.5	ļ	210.0	97.1	86.2		•	105.2	96.6
4	195.2	•	0.0	١.	280.0	92.1	83.5		•	101.2	94.6
5	244.0	•	0.0	ļ	350.0	85.2	78.6		400.0	98.9	94.1
6	292.8	•	0.0	ļ	420.0	•	77.3	ļ	480.0	99.1	95.9
7	341.6	•	0.0	ļ	490.0	•	75.0		560.0	95.8	92.6
8	390.4	•	0.0	!	560.0	•	70.1		640.0	91.8	89.9
9	439.2	•	0.0	ŀ	630.0	65.1	63.2		720.0 800.0	87.7	86.9
10	488.0 536.8	•	:		:	•	58.6 0.0		880.0	86.9 84.8	86.1 84.0
1 12	530.6	•		 		•	0.0	1	960.0	80.2	80.2
13	634.4	•	:	 		•	•		1040.0	75.8	75.8
14	683.2	•	0.0	1	980.0	•	•	•	1120.0	74.8	74.8
15	732.0	•	•	ľ	1050.0	•	•	•	1200.0	71.0	71.6
16	780.8	•	•	•	1120.0	•	•	•	1280.0	68.4	69.0
17	829.6	•	•	•	1190.0	•	•	•	1360.0	61.8	62.4
18	878.4	•	•	•	1260.0	•	•	•	1440.0	60.2	61.2
19	927.2	:	*	•	1330.0	•	•	•	1520.0	53.0	54.0
20	976.0	•	•	•	1400.0	•	•	•	1600.0	0.0	0.0
21	1024.8	•	•	•	1470.0		•	•	1680.0	0.0	0.0
j 22 ⁻	1073.6	•	•	•	1540.0	•	•	•	1760.0	0.0	0.0
23	1122.4	0.0	0.0	İ	1610.0	0.0	0.0	İ	1840.0	0.0	0.0
24	11171.2	0.0	0.0	İ	1680.0	0.0	0.0	İ	1920.0	0.0	0.0
25	11220.0	0.0	0.0	l	1750.0	0.0	0.0		2000.0	0.0	0.0
26	1268.8	0.0	0.0	1	1820.0	0.0	0.0		2080.0	0.0	0.0
•	1317.6	•	•	•	1890.0	0.0	•	•	2160.0	0.0	0.0
•	1366.4	•	0.0		1960.0	0.0	•	•	2240.0	0.0	0.0
•	1415.2	•	0.0	•	2030.0	0.0	•	•	2320.0	0.0	0.0
2	1464.0	:	0.0	:	2100.0	0.0		:	2400.0	0.0	0.0
	11512.8		•	•	2170.0	0.0	:	•	2480.0	0.0	0.0
:	1561.6	•	:	•	2240.0	0.0	0.0	•	2560.0	0.0	0.0
33	1610.4	1	•	•	2310.0	0.0	:	•	2640.0	0.0	0.0
:	1659.2	:	:	:	2380.0	0.0	0.0	•	2720.0	0.0	0.0
35	1708.C	•	:	•	2450.0	0.0	0.0	l	2800.0	0.0	0.0
36	1756.8	:	0.0	:	2520.0	0.0	0.0		2880.0 2960.0	0.0	0.0
•	1805. <i>6</i> 1854.4	•	0.0	:	2590.0 2660.0	0.0	0.0 0.0	•	3040.0	0.0 0.0	0.0 0.0
•	1054.4 1903.2	•	•	•	2730.0	•		•	3120.0	0.0	0.0
•	1903.2 1952.0		•	•	2800.0	•	•	•	3200.0	0.0	0.0
+	x/J2. \	-+	•	•	•	•	•	•	+	•	
+	 	-+	-	•	•	-	-	•	+	•	
 	OASPL	89.5	64.4			107.0				112.8	

⁻ FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 3 (PITCH ANGLE: 19.9 DEG)

	+			DATA-	POINT /	RUN			 						
+] BN-	-7 /	55	BN	-4 /	54	BN	-5 /	53 						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA						
1	48.8	87.7	57.5	•	106.4	80.2	•	111.0	88.5						
2	97.6	80.6	61.5	•	102.8	86.7	•	108.4	95.0						
3	146.4	73.6	60.2	•	97.1	86.2	•	106.9	98.3						
4	195.2	65.6	54.7	280.0	92.4	83.8	•	104.0	97.4						
5	244.0	0.0	0.0	350.0	89.7	83.1	•	103.8	99.0						
6	292.8	0.0	0.0	420.0	88.1	83.3	•	101.4	98.2						
7	341.6	0.0	0.0	490.0	83.0	79.8	•	96.4	93.2						
8	390.4	0.0	0.0	560.0	77.7	74.5	640.0	96.3	94.4						
, 9	439.2	0.0	0.0	630.0	76.2	74.3	1	93.9	93.1						
10	488.0	0.0	0.0	700.0	71.1	69.2	800.0	90.7	89.9						
11	536.8	0.0	0.0	770.0	67.6	66.8	880.0	87.3	86.5						
12	585.6	0.0	0.0	840.0	53.5	52.7	960.0	85.9	85.9						
13	634.4	0.0	0.0	910.0	0.0	•	1040.0	82.6	82.6						
:	14 683-2 0.0 0.0 980.0 0.0 0.0 1120.0 78.7 78.7 15 732.0 0.0 0.0 1050.0 0.0 0.0 1200.0 76.1 76.7														
		•		•	•		•	•							
16	780.8	0.0		1120.0	•	•	1280.0	74.9	75.5						
1 17	829.6	0.0		1190.0	•	•	11360.0	69.6	70.2						
19	878.4 927.2	0.0	,	1330.0	•	•	1440.0 1520.0	65.0	66.0						
20	976.0	0.0		1400.0	•	•	1600.0	64.0 62.7	65.0						
•				•	•		•	•	63.7						
•	21 1024.8 0.0 0.0 1470.0 0.0 0.0 1680.0 60.9 61.9														
•	11122.4	0.0		1610.0	•	•	1840.0	59.1 0.0	60.1 0.0						
•	1171.2	0.0		1680.0	•	•	1920.0	0.0	0.0						
•	1220.0	0.0		1750.0	•	•	2000.0	0.0	0.0						
•	1268.8	0.0		1820.0	0.0	•	2080.0	0.0	0.0						
•	1317.6	0.0		1890.0	0.0	•	2160.0	0.0	0.0						
•	1366.4	0.0		1960.0	0.0	•	2240.0	0.0	0.0						
29	1415.2	0.0	0.0	2030.0	0.0	•	2320.0	0.0	0.0						
30	1464.0	0.0	0.0	2100.0	0.0	•	2400.0	0.0	0.0						
	1512.8	0.0		2170.0	0.0	: :	2480.0	0.0	•						
32	1561.6	0.0	0.0	2240.0	0.0		2560.0	0.0	0.0						
33	1610.4	0.0	0.0	2310.0	0.0		2640.0	0.0	0.0						
34	1659.2	0.0	0.0	2380.0	0.0	: :	2720.0	0.0	0.0						
	1708.0	0.0	0.0	2450.0	0.0		2800.0	0.0	0.0						
36	1756.8	0.0	0.0	2520.0	0.0	•	2880.0	0.0	0.0						
•	1805.6	0.0	0.0	2590.0	0.0	:	2960.0	0.0	0.0						
•	1854.4	0.0	0.0	2660.0	0.0	: :	3040.0	0.0	0.0						
•	1903.2	0.0		2730.0	•	•	3120.0	0.0	0.0						
•	1952.0	0.0		2800.0	•		3200.0		0.0						
+		•					+	+	+						
+				+			•	=	• •						
1 (65.2	1	[108.5]	92.6	1	115.0	106.0						
+		+	h	h	+	++	+	+	++						

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 4 (PITCH ANGLE: 19.9 DEG)

	+ 			DATA-1	POINT /	RUN							
4	BN-	-7 /	55	BN	-4 /	54	BN	-5 /	53				
HN	F	SPL	SPLA	, F	SPL	SPLA	F	SPL	SPLA				
1 1	•	88.6			107.8		•	113.8	91.3				
2	•	79.4	60.3	•	103.7	87.6	•	108.3	94.9				
3	•	•	:		96.9 96.1	86.0 87.5	•	108.3 105.1					
4	1	0.0	:	280.0 350.0	•	85.6	•	102.2					
6	•		: :		87.8		•	100.7					
7 1			:	•	82.7		•	•	95.5				
8			•	560.0	•	74.5	:	97.3	•				
	: .		•	630.0	•	72.5	:	93.3					
10		0.0	, .	700.0	•		800.0	91.5					
111	536.8	0.0		770.0	•	:	880.0	89.4					
: :	585.6		:	840.0	•	:	960.0	84.8					
13	634.4	0.0	•	910.0	•	0.0	1040.0	83.6	•				
14	683.2	0.0	0.0	980.0	0.0	0.0	1120.0	81.8	81.8				
15													
16	16 780.8 0.0 0.0 1120.0 0.0 0.0 1280.0 73.6 74.2												
17 829.6 0.0 0.0 1190.0 0.0 0.0 1360.0 72.3 72.9													
	878.4			1260.0	•		1440.0	69.8	, .				
19	927.2	•		1330.0	•		1520.0	65.0					
20	976.0	•		1400.0	•		1600.0	59.7					
	1024.8	0.0		1470.0	•		1680.0	61.0	62.0				
•	1073.6	0.0		1540.0	•		1760.0	•	57.2				
	11122.4	0.0	•	1610.0	•		11840.0	•	57.9				
	1171.2	0.0	•	11680.0			1920.0	48.5	49.7				
25	1220.0 1268.8	0.0		1750.0 1820.0	0.0	0.0 0.0	2000.0	0.0 0.0	0.0				
20	1317.6	0.0		1890.0	0.0		2160.0	0.0	0.0				
28	1366.4	0.0	•	1960.0	0.0	0.0	2240.0	0.0	0.0				
20	1415.2	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0				
30	1464.0	0.0	0.0	2100.0	0.0	0.0	2400.0	0.0	0.0				
1 - 1	1512.8	0.0		2170.0	0.0		2480.0	0.0	0.6				
32	1561.6	0.0		2240.0	0.0		2560.0	0.0	0.0				
j 33 j	1610.4	0.0		2310.0	0.0	:	2640.0	0.0	0.0				
34	1659.2	0.0	0.0	2380.0	0.0	0.0	2720.0	0.0	0.0				
35	1708.0	0.0	0.0	2450.0	0.0	0.0	2800.0	0.0	0.0				
36													
	1805.6	0.0		2590.0	0.0	,	2960.0	0.0	0.0				
	1854.4	0.0		2660.0	0.0	•	•	0.0	0.0				
	1903.2	•		2730.0			3120.0	•	0.0				
	1952.0			2800.0			3200.0	•	•				
	-			-+									
) 0		-	64.8			93.8		-	106.4				
+		+	h	++	+	+ -	+	+	+				

が、一般のでは、「一般のでは、「一般のでは、「一般のでは、「一般のでは、「これをはない。」という。「「一般のでは、「一般のでは、「一般のでは、「一般のでは、「一般のでは、「」」という。「「一般のでは、

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

	+ 			DATA-1	POINT /	RUN			
	l BN-	-7 /	55] BN	-4 /	54] BN	-5 /	53
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
1 1	48.8	89.3	59.1	•	109.1	82.9	•	116.0	93.5
2	97.6	74.0	54.9	•	104.7	88.6	160.0	109.7	96.3
3	146.4	0.0	0.0		95.8	84.9	•	107.0	98.4
4	195.2	0.0	0.0	280.0	95.7	87.1	•	109.7	103.1
5	244.0	0.0	0.0	350.0	92.1	85.5	•	105.0	100.2
6	292.8	0.0	0.0	420.0	84.3	79.5	480.0	97.6	94.4
7	341.6	0.0	0.0	490.0	77.2	74.0	560.0	98.8	95.6
8	390.4	0.0	0.0	560.0	79.7	76.5	640.0	97.0	95.1
9		0.0	0.0	630.0	76.4	74.5	720.0	93.1	92.3
10	488.0 536.8	0.0	0.0	700.0	65.3	63.4 0.0	800.0	89.0	88.2
12	585.6	0.0	0.0	840.0	0.0	0.0	880.0 960.0	87.1 85.4	86.3 85.4
13	634.4	0.0	0.0	910.0	0.0	0.0	1040.0	82.9	82.9
14	683.2	0.0	0.0	980.0	0.0		1120.0	77.7	77.7
15	732.0	0.0	0.0	1050.0	0.0		1120.0	75.5	76.1
16		0.0		1120.0	0.0		1280.0	74.6	75.2
17	829.6	0.0		1120.0	0.0		1360.0	69.7	70.3
18	:	0.0	•	1260.0	0.0	•	1440.0	66.1	67.1
19	927.2	0.0	•	1330.0	0.0		1520.0	64.6	65.6
20	976.0	0.0		1400.0	0.0	•	1600.0	61.6	62.6
	1024.8	0.0	•	1470.0	0.0	•	1680.0	0.0	0.0
	1073.6	0.0		1540.0	0.0		1760.0	0.0	0.0
	1122.4	0.0		1610.0	0.0		1840.0	0.0	0.0
	1171.2	0.0	•	1680.0	0.0		1920.0	0.0	0.0
	1220.0	0.0		1750.0	0.0		2000.0	0.0	0.0
26	1268.8	0.0	0.0	1820.0	0.0	0.0	2080.0	0.0	i 0.0 i
27	1317.6	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0
28	1366.4	0.0	0.0	1960.0	0.0	0.0	2240.0	0.0	0.0
29	1415.2	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0
30	1464.0	0.0	0.0	2100.0	0.0	0.0	2400.0	0.0	0.0
31	1512.8	0.0		j2170.0	0.0	0.0	2480.0	0.0	0.0
•	1561.6	0.0		2240.0	0.0		2560.0	•	0.0
•	1610.4	0.0	:	2310.0		0.0	2640.0	:	0.0
	1659.2	0.0	•	2380.0	0.0	:	2720.0	:	0.0
•	1708.0	0.0		2450.0	0.0	:	2800.0		0.0
: :	1756.8	0.0	0.0	2520.0	0.0	•	2880.0	•	0.0
	1805.6	0.0	0.0	2590.0	•	:	2960.0	•	0.0
•	•	0.0	0.0	2660.0	•	•	3040.0	•	0.0
	•	0.0	•	2730.0	•		3120.0		
	1952.0	0.0	0.0	2800.0	•		3200.0		
+ +	+		 				+	-	
1 ^	ASPL	r 00 /	60.5	-	-	93.6	•	•	•
J 0	HOLD	•	, 60.5 Lanana				 - 		107.6
-,			, -		,		-,	,	r

MICROPHONE: MP 6 (PITCH ANGLE: 19.9 DEG)

BN-7		+			DATA-	POINT /	RUN			-				
1 48.8 42.4 12.2 70.0 49.5 23.3 80.0 45.8 23.3 2 97.6 18.4 -0.7 140.0 0.0 0.0 160.0 0.0 0.0 0.0 3 146.4 0.0 0.0 0.0 120.0 0.0 0.0 240.0 0.0 0.0 4 195.2 0.0 0.0 280.0 0.0 0.0 240.0 0.0 0.0 0.0 4 195.2 0.0 0.0 1350.0 0.0 0.0 0.0 400.0 0.0 0.0 0.0 6 292.8 0.0 0.0 1420.0 0.0 0.0 480.0 0.0 0.0 0.0 6 292.8 0.0 0.0 1420.0 0.0 0.0 480.0 0.0 0.0 0.0 7 341.6 0.0 0.0 1420.0 0.0 0.0 0.0 640.0 0.0 0.0 0.0 17 341.6 0.0 0.0 1560.0 0.0 0.0 0.0 560.0 0.0 0.0 0.0 1280.0 0.0 0.0 1560.0 0.0 0.0 0.0 0.0 1560.0 0.0	4	BN-	-7 /	55 +	BN	-4 /	54	BN	-5 /	53 				
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	(DASPL	42.4	12.4		49.5	23.3	i	45.8	23.3				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 7 (PITCH ANGLE: 19.9 DEG)

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F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 9 (PITCH ANGLE: 19.9 DEG)

	+			DATA-1	POINT /	RUN						
+	 BN-	-7 /	55	BN	-4 /	54	ļ BN	-5 /	53			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA			
1 1	48.8	•	•	•	105.7	•	•	112.9	•			
•	97.6	80.1 68.6				86.7		107.9	•			
: .		0.0	•			82.5 87.6	•	105.7 106.5	•			
5	• •	0.0			•	87.6 86.4	•	100.5				
•	292.8			•	•	76.0	•	•	, ,			
:	341.6		•	•	76.7		560.0	•				
•	390.4	•	•		79.9		•	•	92.4			
	439.2			•	69.0		720.0	•	•			
	488.0		•		0.0		800.0	•				
:	536.8	•	•		0.0	•	880.0		85.6			
:	585.6				0.0		960.0					
j 13	634.4	•	•	•	•		1040.0	•				
14	683.2	0.0	0.0	980.0		0.0	1120.0					
15 732.0 0.0 0.0 1050.0 0.0 1200.0 77.0 77.6												
16 780.8 0.0 0.0 1120.0 0.0 0.0 1280.0 70.4 71.0												
17	829.6	0.0	0.0			1360.0	68.4	69.0				
18	878.4			1260.0			1440.0	67.6	68.6			
19	927.2	,		1330.0			1520.0	•	0.0			
20	976.0	•		1400.0	•		1600.0	•				
•	1024.8	•		1470.0			1680.0	•	•			
•	1073.6		•	1540.0			1760.0	•	, ,			
•	1122.4	,	•	1610.0	•		1840.0	•	•			
•	1171.2		•	1680.0	•		1920.0	•	0.0			
•	1220.0	0.0	• , ,	1750.0		0.0	2000.0	•	0.0			
•	1268.8		•	1820.0	•	0.0	2080.0	0.0	0.0			
•	1317.6	0.0	•	1890.0	•	0.0	2160.0	•	0.0			
	1366.4		•	1960.0	0.0 0.0	0.0 0.0	2240.0	0.0	0.0			
	1415.2 1464.0	0.0	•	2030.0 2100.0	0.0		2320.0 2400.0] 0.0] 0.0	0.0 0.0			
	1404.0 1512.8	0.0		2170.0	0.0	•	2480.0	0.0				
32	1561.6	0.0		2240.0	0.0	0.0 0.0	2560.0	0.0	0.0			
33	1610.4	0.0		2310.0	0.0	0.0	2640.0	0.0	0.0			
34	1659.2	0.0	•	2380.0	0.0	!	2720.0	0.0	0.0			
35 1708.0 0.0 0.0 2450.0 0.0 0.0 2800.0 0.0 0.												
36	1756.8	0.0		2520.0	0.0		2880.0	0.0	0.0			
•	1805.6	0.0	•	2590.0	0.0		2960.0	0.0	0.0			
•	1854.4	0.0		2660.0	0.0		3040.0	0.0	0.0			
•	1903.2	0.0	0.0	2730.0	0.0	0.0	3120.0	0.0	0.0			
•	1952.0	0.0	•	2800.0	•		3200.0	•	0.0			
+	 		•		•	•	•	•				
T			68.4			92.7			105.6			
+				- +				•				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 1 (PITCH ANGLE: 19.9 DEG)

	†		******	DATA-	POINT /	RUN			 				
+	BN:	-6 / +	51	BN	-61 /	52			 				
HN	F	SPL	SPLA	 F	SPL	SPLA	F	SPL	SPLA				
1		1111.1	•	93.3	•	91.6							
2		•		186.6	•	100.3		}					
3	: •	108.6	•	279.9	•	100.6		!	!				
4	•	•	•	373.2 466.5	•	1105.6	. !	!	[
5	• •	99.7	•	466.3	•	104.2 100.2		! !					
7	1 1	100.8	•	653.1	•	100.2	1	 					
8	• •	100.6		746.4	•	102.2	i i	! !					
9	: :	•	•	• •	•		i		,				
10													
111	990.0	•	•	• •	•	97.0	i	i	i i				
12	12 1080.0 84.7 84.7 1119.6 95.4 95.4												
13	1170.0	84.8	85.4	1212.9	91.0	91.6	Ì	İ	İ				
14	1260.0	82.4	83.0	1306.2	91.0	91.6		1	İ				
15	1350.0	•	•	1399.5	•	88.9	1	j					
16	1440.0	77.5	•	1492.8	87.7	88.7	ļ ļ	! i					
17	1530.0	•	•	1586.1	84.5	85.5	[<u> </u>					
18	1620.0	•	•	11679.4	83.6	84.6	ļ	!	ļ				
19	1710.0	•	•	11772.7	82.2	83.2	ļ	<u> </u>	!!				
20	1800.0	•	•	11866.0	73.5	74.7		!	!				
•	1890.0 1980.0	•	•	1959.3 2052.6	76.9	78.1 78.1	 1	! !					
23	12070.0	•	0.0	2145.9	•	76.1 65.0	 	} 					
24	2160.0	•	•	2239.2	•	0.0	I I	{ 					
25	12250.0	•	•	2332.5	•	0.0		; 					
26	12340.0	•	•	2425.8	•	0.0	i						
•	12430.0	•	•	2519.1	•	0.0	i	i	i i				
28	[2520.0	•	•	2612.4	•	0.0	i	i	i i				
29	[2610.0	0.0	0.0	2705.7	0.0	j 0.0 j	i	į	i i				
30	12700.0	0.0	0.0	2799.0	0.0	0.0	i i	ĺ	İ				
31	2790.0	0.0	•	2892.3	0.0	0.0							
32	12880.0	0.0		2985.6	0.0	0.0		!					
33	12970.0	0.0	Ī.	3078.9	0.0	0.0		1					
34	3060.0	0.0	-	3172.2	0.0	0.0							
35	3150.0	0.0	<u>:</u>	3265.5	0.0	0.0	1	!	!				
36	113240.0] 0.0		1 3358.8	0.0	0.0	!!	<u> </u>	!				
37	113/30.0] 0.0] 0.0] 0.0	3452.1 3545.4	0.0	0.0	1	 					
38	3420.0 3510.0] 0.0] 0.0	•	3638.7	0.0	0.0		!					
•	13600.0	•	•	3732.0	•	0.0	 }]]] 				
•	++	,	0.0 	• •	+	1 0.0 1 t	 	! {	 				
+		+	+	- 	+	++	·+						
			108.8			112.2		1	İ				
+													

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 4 (PITCH ANGLE: 19.9 DEG)

1 90.0 114.3 95.2 93.3 116.1 97.0					DATA-	POINT'/	RUN			
	 	BN-	-6 / +	*51 +	BN	-61 /	52		+	+
180.0 112.2 101.3 186.6 114.7 103.8	HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
3 270.0 114.6 106.0 279.9 118.2 109.6	1	: :	•	•	: :	•	•			
4 360.0 113.0 108.2 373.2 116.5 111.7	: :	•	•	•	, ,	•	•			1
5		•	•	•		•			I	!
6 540.0 111.5 108.3 559.8 116.0 112.8 7 630.0 112.4 110.5 653.1 115.9 114.0 8 720.0 110.1 109.3 746.4 114.3 113.5 9 810.0 109.5 108.7 839.7 114.3 113.5 10 900.0 109.2 109.2 1933.0 114.2 114.2 111 990.0 107.5 107.5 1026.3 113.0 113.0 112 1080.0 106.8 106.8 1119.6 113.6 113.6 13 1170.0 106.2 106.8 1212.9 110.1 110.7 14 1260.0 102.7 103.3 1306.2 110.1 110.7 15 1350.0 103.4 104.0 11399.5 109.9 110.5 16 11440.0 102.0 103.0 1492.8 108.4 109.4 17 1530.0 99.1 100.1 1586.1 106.8 107.8 18 1620.0 98.0 99.0 1679.4 105.9 106.9 19 1710.0 97.9 98.9 1772.7 106.1 107.1 20 1800.0 96.4 97.6 1866.0 103.4 104.6 21 1890.0 92.3 93.5 2052.6 101.6 103.2 22 1980.0 92.3 93.5 2052.6 101.6 102.8 23 12070.0 90.9 92.1 2145.9 99.9 101.1 24 12160.0 88.9 90.1 12323.2 98.6 99.9 25 12250.0 88.4 89.7 22332.5 98.3 99.6 22 1240.0 86.1 87.4 2425.8 97.6 98.9 27 2430.0 85.8 87.1 2259.2 98.6 99.9 2610.0 84.3 85.6 2705.7 95.9 97.2 30 12700.0 82.4 83.7 12799.0 95.5 96.8 31 2790.0 77.1 78.3 3078.9 92.3 93.5 2052.5 93.2 94.4 33 12790.0 81.2 82.4 12985.6 93.2 94.4 33 12970.0 77.1 78.3 3078.9 92.3 93.5 39.		•	•	•	• • .	-	•		•	
7	:		:	•	: :	.	:	 1		1
8 720.0 110.1 109.3 746.4 114.3 113.5 9 810.0 109.5 108.7 839.7 114.3 113.5 10 900.0 109.2 109.2 933.0 114.2 114.2 11 990.0 107.5 107.5 1026.3 113.0 113.0 12 1080.0 106.8 106.8 1119.6 113.6 113.6 13 1170.0 106.2 106.8 1212.9 110.1 110.7 14 1260.0 102.7 103.3 1306.2 110.1 110.7 15 1350.0 103.4 104.0 1399.5 109.9 110.5 16 1440.0 102.0 103.0 1492.8 108.4 109.4 17 1530.0 99.1 100.1 1586.1 106.8 107.8 18 1620.0 98.0 99.0 1679.4 105.9 106.9 19 1710.0 97.9 98.9 1772.7 106.1 107.1 20 1800.0 96.4 97.6 1866.0 103.4 104.6 21 1890.0 92.9 94.1 1959.3 102.0 103.2 22 1980.0 92.3 93.5 2052.6 101.6 102.8 23 12070.0 90.9 92.1 1245.9 99.9 101.1 24 2160.0 88.9 90.1 12239.2 98.6 99.9 25 12250.0 88.4 89.7 2332.5 98.3 99.6 26 2340.0 86.1 87.4 2425.8 97.6 98.9 27 12430.0 85.8 87.1 2219.1 97.4 98.7 28 12520.0 84.7 86.0 261	:	•	*	•	: :	•	:	 1	{ 1	ξ 1
9 810.0 109.5 108.7 839.7 114.3 113.5 10 900.0 109.2 109.2 1933.0 114.2 114.2 111.1 111.1 1990.0 107.5 107.5 1026.3 113.0 113.0 112 1080.0 106.8 106.8 11119.6 113.6 113.6			•	•		•	Ī	 1	1 1	
10 900.0 109.2 109.2 933.0 114.2 114.2	:	•	•	•	•	•	•		i i	: !
11 990.0 107.5 107.5 1026.3 113.0 113.0 12 1080.0 106.8 106.8 11119.6 113.6 113.6 13 1170.0 106.2 106.8 1212.9 110.1 110.7 14 1260.0 102.7 103.3 1306.2 110.1 110.7 15 1350.0 103.4 104.0 1399.5 109.9 110.5 16 1440.0 102.0 103.0 1492.8 108.4 109.4 17 1530.0 99.1 100.1 1586.1 106.8 107.8 18 1620.0 98.0 99.0 1679.4 105.9 106.9 19 1710.0 97.9 98.9 1772.7 106.1 107.1 20 1800.0 96.4 97.6 1866.0 103.4 104.6 21 1890.0 92.9 94.1 1959.3 102.0 103.2 22 1980.0 99.3 99.5 2052.6 101.6 102.8 23 2070.0 90.9 92.1 2145.9 99.9 101.1 24 2160.0 88.9 90.1 2239.2 98.6 99.9 25 12250.0 88.4 89.7 2332.5 98.3 99.6 27 2430.0 85.8 87.1 2519.1 97.4 98.7 28 2520.0 84.7 86.0 2612.4 97.6 98.9 29 2610.0 84.3 85.6 2705.7 95.9 97.2 30 12700.0 82.4 83.7 2299.0 95.5 96.8 31 2790.0 80.4 81.7 2892.3 95.2 96.4 33 2970.0 77.1 78.3 3078.9 92.3 93.5 335.0 76.8 78.0 3265.5 91.5 92.7 33 330.0 72.1 78.3 3078.9 92.3 93.5 3350.0 77.8 78.0 3265.5 91.5 92.7 33 330.0 72.1 73.3 3452.1 90.5 91.7 33 330.0 72.1 73.3 3452.1 90.5 91.7 33 330.0 72.1 73.3 3452.1 90.5 91.7 33 330.0 72.5 73.7 3545.4 89.8 91.0 39 35510.0 72.8 74.0 3638.7 89.0 90.0 40 3600.0 70.3 71.3 3732.0 86.6 87.6	:		•	•	• •	•	•	I 	<u> </u>	; [
12			•	•	• •	•	•	1		ĺ
13		•	•	-	• •	•	: :		i	İ
15 1350.0 103.4 104.0 1399.5 109.9 110.5	•	•	•	•	• •	•	•	ij	Ì	İ
16	14	1260.0	102.7	103.3	1306.2	110.1	110.7		İ	
17 1530.0 99.1 100.1 1586.1 106.8 107.8 18 1620.0 98.0 99.0 1679.4 105.9 106.9	15	1350.0	103.4	104.0	1399.5	109.9	110.5			ĺ
18 1620.0 98.0 99.0 1679.4 105.9 106.9 19 1710.0 97.9 98.9 1772.7 106.1 107.1 20 1800.0 96.4 97.6 1866.0 103.4 104.6 21 1890.0 92.9 94.1 1959.3 102.0 103.2 22 1980.0 92.3 93.5 2052.6 101.6 102.8 23 2070.0 90.9 92.1 2145.9 99.9 101.1 24 2160.0 88.9 90.1 2239.2 98.6 99.9 25 2250.0 88.4 89.7 2332.5 98.3 99.6 26 2340.0 86.1 87.4 2425.8 97.6 98.9 27 2430.0 85.8 87.1 2519.1 97.4 98.7 28 2520.0 84.7 86.0 2612.4 97.6 98.9 29 2610.0 84.3 85.6 2705.7 95.9 97.2 30 2700.0 82.4 83.7 2799.0 95.5 96.8 31 2790.0 80.4 81.7 2892.3 95.2 96.4 32 2880.0 81.2 82.4 2985.6 93.2 94.4 33 2970.0 77.1 78.3 3078.9 92.3 93.5 34 3060.0 77.6 78.8 3172.2 93.3 94.5 35 3150.0 76.8 78.0 3265.5 91.5 92.7 36 3240.0 75.9 77.1 3358.8 90.5 91.7 39 3510.0 72.8 74.0 3638.7 89.0 90.0 40 3600.0 70.3 71.3 3732.0 86.6 87.6	16	1440.0	102.0	103.0	1492.8	108.4	109.4		1	1
19 1710.0 97.9 98.9 1772.7 106.1 107.1	17	•	•	•	• •	•	107.8		1	l
20 1800.0 96.4 97.6 1866.0 103.4 104.6	18	•	•	•	• •	•	: :			
21 1890.0 92.9 94.1 1959.3 102.0 103.2		•	•	•	• •	•			!	_
22 1980.0 92.3 93.5 2052.6 101.6 102.8		•	•	•	• •	•	:	ļļ		ļ
23 2070.0 90.9 92.1 2145.9 99.9 101.1		•	-	•	• •	•	:			ĺ
24 2160.0 88.9 90.1 2239.2 98.6 99.9	•	•	•	•	•	•				
25 2250.0 88.4 89.7 2332.5 98.3 99.6		•	:	•	: :	•		 	! !	!
26 2340.0 86.1 87.4 2425.8 97.6 98.9			•		: :	-	: :	 	}	} !
27 2430.0 85.8 87.1 2519.1 97.4 98.7			•	•			•] 	} !
28 2520.0 84.7 86.0 2612.4 97.6 98.9	•	•	•	•	• •	•		 	! !	
29 2610.0 84.3 85.6 2705.7 95.9 97.2	•	•	•	•	• •	•	•	1 [! !	
30 2700.0 82.4 83.7 2799.0 95.5 96.8	•	•	•	•	1 1	•				!
31 2790.0 80.4 81.7 2892.3 95.2 96.4 32 2880.0 81.2 82.4 2985.6 93.2 94.4 33 2970.0 77.1 78.3 3078.9 92.3 93.5 34 3060.0 77.6 78.8 3172.2 93.3 94.5 35 3150.0 76.8 78.0 3265.5 91.5 92.7 36 3240.0 75.9 77.1 3358.8 90.5 91.7 37 3330.0 72.1 73.3 3452.1 90.5 91.7 38 3420.0 72.5 73.7 3545.4 89.8 91.0 39 3510.0 72.8 74.0 3638.7 89.0 90.0 40 3600.0 70.3 71.3 3732.0 86.6 87.6			•	•	•		•	i		
33 2970.0 77.1 78.3 3078.9 92.3 93.5		•	•	•	• •	•		İ	İ	
34 3060.0 77.6 78.8 3172.2 93.3 94.5	32	2880.0	81.2	82.4	2985.6	93.2	94.4	11		ĺ
35 3150.0 76.8 78.0 3265.5 91.5 92.7	33	2970.0	77.1	•	•	•	93.5	11		
36 3240.0 75.9 77.1 3358.8 90.5 91.7		•	•	•	• •	•	•			
37 3330.0 72.1 73.3 3452.1 90.5 91.7		•	•	•		•	:			
38 3420.0 72.5 73.7 3545.4 89.8 91.0	:	•	7	•		•				
39 3510.0 72.8 74.0 3638.7 89.0 90.0	:		•	•	• •	•				
40 3600.0 70.3 71.3 3732.0 86.6 87.6			•	•	• •	•	•		i i	
			•	•	• •	•	•		1	
	40 1	3000.0 	/U.3	/1.3 	3/32.U 	00.0	0/.0 +=====		! 	
Digner land of land mill land of the second			+	+			+	+		
OASPL 122.9 119.5 127.0 124.5	: 0	DASPL	122.9	119.5	11	127.0	124.5	1		

- FREQUENCY HZ

terné l'explain de

MICROPHONE: HP 5 (PITCH ANGLE: 19.9 DEG)

	+			~ ~ ~ ~ ~ .		DATA-1	TNIC9	RUN				
·4		BN	-6 /	51		BN	-61 /	52			L	
HN		F	SPL	SPLA		F	SPL	SPLA		F	SPL	SPLA
1	II	90.0	115.6	96.5		93.3	117.7	98.6	i	3		
2		180.0	110.4	99.5		186.6	112.2	101.3				
3		270.0	114.0	105.4		279.9	116.8	108.2	1			
1 4	11		115.5	110.7	П	373.2	118.9	114.1				
5			108.3	105.1		466.5	111.9	108.7	1		•	
6			110.8	107.6			•	112.9				
7			•	110.5	П	653.1	1	114.0				`
8	11		•	106.9	П	746.4	111.6	110.8				
9		810.0	108.2	107.4		839.7	112.6	111.8	ļ			
10	!!	900.0	106.2	106.2	Ц	933.0	112.1	112.1				
11		990.0	•	106.8		1026.3	112.3	1112.3	1			
1 12		1080.0	•	1104.0	•	1119.6	107.1	107.1	ļ		!	
13	• •		-	104.2	!!	1212.9	110.7	111.3	į			
1 14	• •	1260.0	•	103.6		1306.2	108.8	1109.4	ļ			
15		1350.0	100.5 99.0	101.1	•	1399.5	103.4	104.0	!			
1 16		1440.0 1530.0	99.0	•	•	1492.8	•	108.0	İ		[]	
17		1620.0	95.6	•	•	1586.1 1679.4	•	105.4	į			
1 19		1710.0	94.0				-	102.0 104.0	i		[[
20		1800.0	93.1		•		1	101.4	!			
21	• •	1890.0	90.6	•		1959.3	98.6	99.8	1			!
22		1980.0	89.6	•	• •	2052.6	•	100.8	i i			
23		2070.0	89.6	•	• •	2145.9	96.7	97.9	-	İ	i 	l
24		2160.0	86.3	•		2239.2	94.7	96.0	i			
25		250.0	85.3	•		2332.5	95.9	97.2	i			
26		340.0	84.3	:		2425.8	92.6	93.9	i			
27		2430.0	82.1	83.4		2519.1	93.1	94.4	i			
28		2520.0	81.2	82.5		2612.4	89.7	91.0	i			
29		2610.0	77.8	79.1	ij	2705.7	91.8	93.1	i			,
30		2700.0	78.4	:	İ	2799.0	89.9	91.2	i			
31		2790.0	76.8			2892.3	87.7	j 88.9 j	i			i
32	1 2	2880.0	72.9	74.1	П	2985.6	90.3	91.5	İ			i
33	112	2970.0	74.6	75.8	lÌ	3078.9	87.7	88.9	ĺ	İ		1
34	113	3060.0	73.1	74.3	ı	3172.2	86.6	87.8	1			İ
35		3150.0	70.1	71.3		3265.5	87.2	88.4				ì
36		3240.0	70.6	71.8	٠.	3358.8	5.1	86.3	1		İ	į
3;		3330.0	71.2	•	•	3452.1	84.0	85.2		ļ		1
38		3420.0	65.9	•	•	3545.4	84.0	85.2	ļ	ļ		1
39		3510.0	66.6	67.8	•	3638.7	79.9	80.9			1	1
40	113	3600.0	0.0	0.0		3732.0	82.7	83.7			ļ	ļ
+	· • • •			+	r-1 			t t	→-			· • • • • • • • • • • • • • • • • • • •
Ì	OAS	SPL	122.4	118.3	ij		126.1	•	İ			
+			+ 	+	H			•	<u>-</u>		·+	+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 6 (PITCH ANGLE: 19.9 DEG)

	+			DATA-I	POINT /	RUN			
+	BN-	-6 /	51	BN-	-61 /	52	+		
HN	F	SPL	SPLA	į F	SPL	SPLA	F	SPL	SPLA
1	90.0	41.3	•	93.3		22.4			
2	180.0	•	•	•	•	0.0	1	ļ	
3	270.0	•	: :	279.9	•	0.0	!		
4	360.0		:	373.2	•	0.0	1	<u> </u>	
5	450.0	:	:	466.5	•	0.0	1	 	<u> </u>
6 7	540.0 630.0	0.0 0.0	•	559.8	•	0.0 0.0	1	l . I	
8	720.0	0.0	•	746.4	•	0.0	i !	! !	! !
9	810.0	0.0	•	839.7	•	0.0		! !	! !
1 10	900.0	0.0	•	933.0	•	0.0	i	! 	
111	990.0	0.0	7	1026.3	•	0.0	i	i	
12	1080.0	0.0		1119.6	•	0.0	i	İ	
13	1170.0	0.0		1212.9	•	i 0.0 j	i	Ì	İ
14	1260.0	0.0	0.0	1306.2	0.0	0.0	İ	İ	İ
15	11350.0	0.0	0.0	1399.5	0.0	0.0	İ		
16	1440.0	0.0	•	1492.8	•	0.0	Γ	1	
•	1530.0	0.0	•	1586.1	•	0.0	ļ]	
-	1620.0	0.0	7	1679.4	•	0.0	!	!	
19	1710.0	0.0		1772.7	•	0.0	!	!	
20	1800.0	0.0	•	1866.0	0.0	0.0	!		
21	1890.0	0.0		1959.3	0.0	0.0	ļ	j 1	
22	1980.0 2070.0	0.0	0.0	2052.6 2145.9	0.0	0.0 0.0	j t	! !	
24	2160.0	0.0	0.0	2239.2	0.0	0.0	{·	! !	
25	2250.0	0.0	0.0	2332.5		0.0	1	! !	
26	2340.0	•	•	2425.8	•	0.0		! !	
27	2430.0	•	-	2519.1	•	0.0	i	<u> </u>	!
28	2520.0		•	2612.4		0.0	i	i	
29	2610.0	0.0	•	2705.7		0.0 j	i	İ	
30	2700.0	0.0	0.0	2799.0	0.0	0.0	Ì		
31	2790.0	0.0	0.0	2892.3	0.0	0.0			
•	2880.0	•		2985.6	•	0.0	1	<u> </u>	
•	2970.0	•		3078.9			1		
•	3060.0	•	•	3172.2	0.0	•	!		
•	3150.0	•		3265.5	:		i		
•	3240.0	•	•	3358.8		0.0	•		
•	3330.0 3420.0	• .		3452.1 3545.4		0.0	•		
•	3420.0	•		3638.7		•	•		
•	3600.0	•	,	3732.0			•		
+	• •			•		•	: +		,
+		 	• • •	+		+	•		
1	OASPL	41.3	22.2	1.	41.5	22.4	1	·	
+			tt	-+			+	-	

MICROPHONE: MP 9 (PITCH ANGLE: 19.9 DEG)

	†		(1) 144 (1) 115 (1) 115 (1)		DATA-:	POINT /	RUN				
	 Bi	N-6 /	51		l BN	-61 /	52	l	<u>}</u>	1	:
HN	F	SPL	SPLA		F	SPL	SPLA		F	SPL	SPLA
1	90.0	112.1	93.0		93.3	113.4	94.3	-			
2	180.0	108.2	97.3	I	186.6	108.2	97.3	ļ		[
3	270.0	115.4	106.8	ļ	•	118.4	109.8	l	<u> </u>		
4] 360.0	112.8	108.0	ļ	373.2	113.4	108.6	ļ	ļ	!	,
5	450.0	110.9	107.7	ļ	466.5	•	111.8	ļ	ļ	ļ	
6	540.0	1112.5	109.3	ļ	559.8	115.9	112.7	ļ		!	
7	630.0	110.0	108.1	ļ	653.1	113.1	111.2	ļ	[ļ	
8	720.0	108.9	108.1	ļ	746.4	114.4	113.6	ļ		[
9	810.0	1110.1	1109.3	ļ	839.7	1113.7	1112.9	ļ	<u> </u>	1	
10	1 900.0	106.5	1106.5	ļ	933.0	1110.2	1110.2	ļ		!	
11	990.0	105.4	1105.4	ļ	1026.3	1113.7	1113.7	!	!	 	
12	11170.0	•	1106.2	!	1119.6	111.9 109.8	1111.9		! !	[]	
1 14	1176.0 1260.0	105.2	105.8	l	1212.9 1306.2	109.5	1110.4	!	 	} }	
1 15	1350.0	100.0	103.3	ŀ	•	109.3	110.1 109.7	ŀ	[]	! !	l 1.
1 16	1440.0	102.7	103.3	i	1492.8	•	107.0	ŀ] 	! !	ľ
1 17	1530.0	97.5	98.5	ŀ	1586.1	106.8	107.8	!	! 	! !	
18	1620.0	97.6	98.6	l	1	105.1	106.1]	l B	! !	
19	11710.0	95.5	96.5	i	1772.7	:	104.5	i	! !	! 	
20	1800.0	94.2	95.4	i	1866.0	103.9	105.1		! 	i]	
21	1890.0	94.1	95.3	ì	•	:	101.9	i	i !) 	
22	1980.0	89.6	90.8	i	•	•	101.7	i		<u> </u>	
23	2070.0	90.5	91.7	ì	2145.9	102.1	103.3	i	i	i ·	
24	2160.0	90.3	91.5	ì	2239.2	94.5	95.8	i	j	j	
25	12250.0	80.9	82.2	i,	2332.5	99.8	101.1	i	į		
26	12340.0	86.6	87.9	i	2425.8	97.4	98.7	İ	j	į	
27	2430.0	84.3	85.6	İ,	2519.1	95.6	96.9	İ	į	j :	
28	2520.0	81.2	82.5	İ	2612.4	96.7	98.0	Ì	ĺ		
29	2610.0	82.8	84.1	ĺ	2705.7	93.7	95.0	İ	,		
30]]2700.0	80.2	81.5		2799.0	94.9	96.2	l	1]	
31	2790.0	79.4	80.7	ŀ	2892.3	95.1	96.3			{]
32	288C.0	79.7	80.9		2985.6	91.9	93.1]
33	2970.0	•	•		3078.9	-	94.3	١,			
34	3060.0	76.8	•			93.5	94.7	ļ	ļ		
35	3150.0	76.2	77.4	l	3265.5	•	92.5	١			
36	3240.0	•	•		3358.8	•	91.0	ļ	!		
37	3330.0	•		•	3452.1	•	•		<u>}</u>		
•	3420.0	•	•	•	3545.4	•	:	!]		
•	3510.0	•	•	•	3638.7	•	89.6	ļ			
40 	3600.0	•	•	•	3732.0 	} 90.4	1 91.4	1	 	 	
+		.+	•	•			+	- -		, - -	
	OASPL	121.9	118.5	•	•	•	123.4	•	•		
	~~~~~										h

- FREQUENCY HZ

MICRO	PHONE: MP	1 (	PITCH A	NGLE: 23	.7 DEG	)			
	+	************		 DATA-	POINT /	RUN			
	CN	-1 /	104	l CN	•				
+		SPL	SPLA	+	SPL	+	    F	+   SPL	+   SPI
1	60.0	+  102.3	   76.1	    70.0	+  103.6	†   77.4	++ 	+	+
2	120.0	90.4	74.3	140.0	91.9	75.8		ļ	-
3	180.0    240.0	81.0   77.4	70.1   68.8	210.0	94.1	83.2	l	t j	1
1	300.0	70.0		350.0	83.9	77.3	ii	i	j
6	360.0	62.3	57.5	420.0	76.6	71.8	] ]	ļ	!
7	420.0    480.0	0.0	0.0	490.0	71.9	68.7			
8   9	540.0	0.0	0.0	560.0    630.0	68.1	64.9			
	600.0	0.0	0.0	700.0	0.0	0.0	ii	i	i
I	660.0	0.0	0.0	770.0	0.0	0.0		!	1
:	720.0  ! 780.0	0.0	0.0	840.0   910.0	0.0	0.0			
1 14	840.0	0.0	0.0	980.0	0.0	0.0			
15	900.0	0.0	•	1050.0	0.0	0.0	ii		i
16	960.0	0.0	:	1120.0	0.0	0.0	!!		
	1020.0   1080.0	0.0	: '	1190.0   1260.0	0.0	0.0			{
	1140.0	0.0		1330.0	0.0	0.0	; ; } [		
20	1200.Ŭ	0.0	0.0	1400.0	0.0	0.0	ii	j	i
•	11260.0	0.0	•	1470.0	0.0	0.0	[ ]		ļ
	1320.0   1380.0	0.0		1540.0   1610.0	0.0	0.0	[		
	1440.0	0.0	•	1680.0	0.0	0.0			i
•	1500.0	•		1750.0	0.0	0.0	Ħ	İ	į
	11560.0			1820.0	0.0	0.0	• •		
	1620.0   1680.0			1890.0   1960.0	0.0	0.0			
	1740.0	0.0	•	2030.0	0.0	0.0		Ì	i
	1800.0	0.0	0.0	2100.0	0.0	0.0	ij		!
	1860.0   1920.0	0.0		2170.0   2240.0		•		ļ	
	1920.0			2310.0		•		İ	
34	2040.0	0.0	0.0	2380.0	0.0	0.0	Ħ	i	İ
•	2100.0	*		2450.0	•	•	• •	ļ	ļ
! 36	2160.0   2220.0		•	2520.0   2590.0	-	•		ļ	
1 27	2220.0     2280.0	•	•	2660.0	•	1			!
•		•	0.0	2730.0	0.0	•		i	i
38	2340.0		0.0	2800.0	0.0	0.0	[[	1	
38   39	2340.0   2400.0	1 0.0	<del> </del>	<del> </del>	+~	+	hh	+ ~ ~ ~ ~ ~ ~	T

MICROPHONE: MP 2 ( PITCH ANGLE: 23.7 DEG )

	<del>+</del>			DATA-	POINT /	RUN			
+	CN-	-1 / :	104	CN-	-2 / 1	1,03	1	<b></b>	 
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
	•	•	77.8	•	108.4				
2	120.0	•	81.9	-	•	•	ļ		
3	180.0	92.8	•	210.0	•		!		. !
4	240.0	•	•	280.0		86.7			
5	300.0	•	65.8	350.0		82.0			
6	360.0	68.1	•	420.0	•	79.2			
7		67.2	•	490.0	•	76.6	-	[ 	
8	480.0	62.7	59.5	560.0	•	72.8	1		
9	540.0	60.8	•	630.0	•	69.0		i 1	
10	600.0    660.0	65.1 56.6	63.2	770.0	•	63.4     64.5	}	i 1	
1 12	720.0	46.1	45.3	840.0	•	61.3	1	 	 
13	780.0	0.0		910.0	•	0.0	1		
14	840.0	0.0		980.0	•	0.0	1	] ]	
15	900.0	0.0	•	1050.0	•	0.0	i	<u> </u>	
16	960.0	•	•	1120.0	•	0.0	i	! 	
•	1020.0	•		1190.0	•	0.0	i	į	
	1080.0		•	1260.0	•	0.0	i	j	
	1140.0	0.0	•	1330.0	•	6.0	i	i	
20	1200.0	0.0	7	1400.0	•	0.0	İ		
21	1260.0	0.0	0.0	1470.0	0.0	0.0	İ	į	
22	1320.0	0.0	0.0	1540.0	0.0	0.0	Ì	ĺ	İ
23	1380.0	0.0	0.0	1610.0	0.0	0.0	1	Ì	
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1	}	
	1500.0	•	•	1750.0	•	0.0	}	Į	
	1560.0	Ξ		1820.0		0.0 {			
	1620.0	•		1890.0	•		İ		
	1680.0	•		1960.0	:	: :			
• •	1740.0	•	•	2030.0	:	0.0		ĺ	
	1800.0	0.0		2100.0	•	•		•	ļ
•	1860.0	•	Ī .	2170.0	Ī.	: :	I .		
•	11920.0	•	•	2240.0	•	: :		 	
•	1980.0	: .	Ī :	2310.0		:	[	<u>!</u> !	
•	2040.0	0.0	•	2380.0	0.0	: :	!	 	 
•	2100.0   2160.0	0.0	Ξ :	2450.0   2520.0	•		1	} 	] 
	2160.0     2220.0	•	•	2520.0	:	: :	1	} 	 
•	2280.0	•	•	2660.0	•	: :	1	! !	
•	12340.0	•	•	2730.0	•		1	i	
•	2400.0	•	•	•	•		i	Í	
•		•	•	•	•		÷		
+		+	+	<del> </del>	+	+	+	+	<b>}</b>
(	DASPL			11				l	<b>j</b> 1
+		t	+	<del> </del>	+	++	+	+	<b>+</b>

⁻ FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICRÓPHONE: MP 3 ( PITCH ANGLE: 23.7 DEG )

	4										
	ļ				DATA-1	Y TRIOS	RUN				ļ
		CN.	-1 / 1	104 [	[ CN-	-2 / 1	103	ı			!
+	-+-		- , . 		+		h	+		<del> </del>	, ++
HM		F	SPL	SPLA	ļ F		SPLA	1	F	SPL	SPLA
1 1		60.0	105.8	79.6	•	   110.8	84.6			1	r 
3	į			83.3		•	90.3			i	i
•	į	-	92.8		210.0	•	90.3	j		i	i
4	İ	240.0	85.6	77.0	280.0	96.4	87.8	ì		j	j
5	ĺ	300.0	80.4	73.8	350.0	92.1	85.5	İ		ĺ	İ
6	1	360.0	77.3	72.5	420.0	90.3	85.5	İ		i .	
7	i.	420.0	70.8	66.0	490.0					Ì.	
8	1	480.0	58.6	55.4	560.0	80.0	76.8	1		[	
9	İ	•	58.7		630.0	•	1 73.9	1		1	1
10	•	600.0	,	:	700.0	•	68.0			I	
11	- :	560.0	•	•	770.0	•	66.1			!	
12	1	•	•		840.0	•	•				
13	1	•	•		910.0	•	63.0			!	
14		840.0	0.0	•	980.0	•	58.9			!	ĺ
15	-	•	,	•	11050.0	•	55.5			ļ	]
16	•	960.0	•	:	1120.0	•	0.0			į	<u> </u>
17			0.0		11190.0	•	,			<u> </u>	[
18	•	1080.0  1140.0		:	1260.0  1330.0	•		 		!	
1 20	•	1200.0	•		1400.0	•	1 11			<u> </u>	
21	•	1260.0		:	1470.0	•	0.0	} 		) }	) 
22	•	1320.0	•	•	1540.0	•	0.0	{ 		!	
23	•	1380.0	•		1610.0	•	0.0	1		! }	! ! ! !
24	•	1440.0	•	:	1680.0	•	0.0			;	 
25	•	1500.0	•	:	1750.0	•	0.0	ì		i	i
26	•	1560.0	•	:	1820.0	•	0.0	i		ì	i i
27	•	1620.0	•	: :	1890.0	•	0.0	ij		i	i i
28	•	1680.0	•	:	1960.0	•	0.0	ij		i	i i
29	İ	1740.0	0.0	•	2030.0	0.0	0.0	ij		j	i
30	İ	1800.0	0.0	0.0	2100.0	0.0	0.0	ĺ		İ	İ
31	ļ	1860.0	0.0	0.0	2170.0	0.0	0.0			ĺ	İ
32	-	1920.0	0.0	•	2240.0	0.0	0.0	11		i	l İ
33	•	1980.0	0.0	:	2310.0	0.0	0.0	П		1	
34	•	2040.0	0.0		2380.0	0.0	0.0			1	
35	•	2100.0	0.0	: :	2450.0	0.0	0.0			[	l i
36	•	2160.0	0.0	: .	2520.0	0.0	0.0	H		[	
37	•	2220.0	0.0	•	2590.0	0.0	0.0			!	!!
38		2280.0	0.0	:	2660.0	0.0	0.0			!	!!
39	•	2340.0	0.0	•	2730.0	0.0	0.0			!	!
40		2400.0	•	•	2800.0	•	•			Į.	[
	-+-				+	+	•			† L	
1	<u></u>	ASPL	1106 9	87.5		-	i 96.0			 	r   1
+			•	•		•	•	•		! +	; }
•			•		•	•	•			•	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

	OPELLER		===	War D. OO	7 220		•		
MICROP	HONE: MP	4 (	PITCH A	ANGLE: 23	./ DEG	)			
	1			DATA-	POINT /	RUN			
	CN	<b>-1</b> /	104	CN	<u> </u>	103			
+		+	+	<del> </del>	+	<del>+</del>		-+	+-
HN	} F	SPL	SPLA	F  - <del> </del>	SPL	SPLA	F 	SPL	: +-
1	•		81.0		112.7	86.5	i i	İ	
2	•	100.4	84.3		107.8	91.7		!	!
	*	•	82.3	•	101.6	•			ļ
4	1 240.0 1 300.0	87.2 82.3	78.6 75.7		100.3   94.6	•	 		
6	360.0	•	69.5		•	85.5		!	ŀ
• •	420.0	62.3	57.5		-	80.7			i
8	480.0	·	62.4	•	80.7	77.5	ii	i	İ
9	540.0	65.2	62.0	630.0	78.6	76.7	H	İ	ĺ
10	600.0	58.1		700.0	•	•		İ	l
11	660.0	0.0	0.0	•	•	64.8			ļ
12	720.0   780.0		0.0		58.9	58.1		1	l
13     14	840.0	0.0	0.0	910.0    980.0	0.0	0.0		1	ŀ
15	900.0	0.0	•	1050.0	•	0.0	i i	i	i
16	960.0	•	•	1120.0	•	0.0	ii	i	i
17	1020.0	0.0	•	1190.0	0.0	0.0	ij	į	į
18	1080.0	•	•	•	0.0	j 0.0		1	
19	1140.0	•	•	1330.0	0.0			ļ	ļ
20	1200.0	•		1400.0	0.0	0.0			ļ
21	11260.0	0.0	•	1470.0   1540.0	0.0	0.0	}		i i
	1320.0  1380.9	0.0		1610.0	0.0	0.0	 	l İ	
	1440.0	0.0	0.0	1680.0	0.0	0.0	i		i
	1500.0	0.0	•	1750.0	0.0	0.0	İİ	j	į
26	1560.0	0.0	0.0	1820.0	0.0	0.0			I
27	1620.0	0.0	0.0	1890.0	0.0	0.0		ļ	ļ
28	1680.0	0.0	0.0	1960.0	0.0	0.0		ļ	l
29     30	1740.0  1800.0	0.0	0.0	2030.0 2100.0	0.0	0.0	<u> </u> 	1	i I
31	1860.0	0.0	0.0	2170.0	0.0	0.0	 	i	
32	1920.0	0.0	0.0	2240.0	0.0	0.0	ii	i	i
33	1980.0	0.0	•	2310.0	0.0	0.0	ij	j	İ
34	2040.0	0.0	0.0	2380.0	0.0	0.0	11	İ	İ
	2100.0	0.0	•	2450.0	0.0	0.0		ļ	
	2160.0	0.0	•	2520.0	0.0	0.0			[
	2220.0	0.0	•	2590.0	0.0	0.0	<b> </b>   1	ļ	
• •	2280.0  2340.0	•	•	2660.0   2730.0	0.0	•	!   	1	
	2400.0	•	•	2800.0	•	•		i	
+			+	<del></del>	÷	t			<u>+</u> -
+		<del> </del>	+	-	+	+		-+	; 
1 0	ASPL	108.2 	88.4		114.4	97.6			ł

______

MICROPHONE: MP 5 ( PITCH ANGLE: 23.7 DEG )

	+			DATA-1	POINT /	RUN	ne eng min en eng min en en en en		
	i I CN	-1 / :	204	l CN	•		11		
HN	F	SPL	SPLA	F	SPL	SPLA		SPL	SPLA
1	60.0	108.0	81.8	•	113.8			 	r [
2	120.0	101.6	85.5		•	•		j	į
3	180.0	93.0	82.1	210.0	99.7	88.8	ij	i	j
4	240.0	83.8	75.2	280.0	99.2	90.6	H	į	Ì
5	300.0	79.0	72.4	350.0	96.0	89.4	i i	Ì	j
6	360.0	75.1	70.3	420.0	88.5	83.7	İİ	j	İ
7	420.0	73.3	68.5	490.0	83.1	79.9	ii	Ì	į
8	480.0	66.7	63.5	560.0	82.6	79.4	ii	j	į
9	540.0	54.4	51.2	630.0	76.2	74.3	ii	į	i
10	600.0	0.0	:	700.0	•	70.6	ii	i	j
	660.0	•	:	770.0	•	68,7		i	i
12		0.0	•	840.0		64.2	ii	i	i
13	• •	0.0	:	910.0	•	53.4	ii	j	ĺ
14	, ,	0.0		980.0	•	0.0	ii	i	į
15	900.0	•	•	1050.0	•	0.0	ii	i	į
16	960.0	•	:	1120.0	•	0.0	ii	j	ĺ
		0.0	: :	1190.0	•	0.0	ii	i	ĺ
18	1080.0	0.0	•	1260.0	•	0.0	ii	į	ì
19	1140.0	0.0	: '	1330.0	•	0.0	ĺĺ	i	i
20	1200.0	0.0	:	1400.0	•	0.0	ii	i	i
21	1260.0	0.0	0.0	1470.0		0.0	<b>;</b> ;	i	į
2.2	1320.0	0.0	0.0	1540.0	-	0.0	ii	j	į
23	1380.0	0.0	<u>.</u>	1610.0	0.0	0.0	11	) 	
24	1440.0	0.0	0.0	1680.0	•	0.0	i i	<b>;</b>	1
25	1500.0	0.0	•	1750.0	0.0	0.0	ii	i	į
26	1560.0	0.0	•	1820.0	0.0	0.0	) )	ì	Ì
27	1620.0	0.0		1890.0	0.0	0.0	11	i	ļ
28	1680.0	0.0		1960.0	0.0	0.0	ii	i	ĺ
29	1740.0	0.0	0.0	2030.0	0.0	0.0	i i	i	i
30	1800.0	0.0	: :	2100.0	0.0	0.0	ił	i	i
	1860.0	•	, ,	2170.0	•		ii	ì	Ì
	1920.0	0.0	•	2240.0	0.0	0.0	• •	i	
	1980.0	0.0		2310.0	0.0	0.0	i i	:	ĺ
	2040.0	0.0		2380.0	0.0	0.0	11	ì	i
	2100.0	0.0	•	2450.0	0.0	0.0	ii	i	i
	2160.0	0.0	•	2520.0	0.0	0.0	ii	i	i
	2220.0	0.0		2590.0	0.0	0.0	ii	i	ĺ
	2280.0	0.0		2660.0	•	0.0	ii	i	Ì
	2340.0	•	•	2730.0	•	•	: :	j	i
	2400.0	•		2800.0	•		!!	i	
•		•		+	•		• •	, +	, }
	 	•		•	•	•	• •	+	
(	DASPL	109.0	88.7	1	115.3	97.5		1	
		•		•	•		}-}	: +	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 6 ( PITCH ANGLE: 23.7 DEG )

	-	+   			• •	DATA-	POINT /	RUN				
+		CN·	-1 / 1 		•	CN-	-2 / 1 	LO3	 <del> </del> -		+	 
HN	ا	F	SPL	SPLA	  -	F	SPL	SPLA	  -	F	SPL	SPLA
1	Ì	•	•		•	70.0			İ			
2	Ī	•	•		•	140.0			ļ		<b>!</b> ;	
3	-					210.0			1		} 	
4		•	81.2			280.0 350.0			1		 	
6	l	•	72.4			420.0			1		i I	
7	•	•	65.3			490.0			-		! !	
8	l	•	65.8		•	560.0			ŀ		l İ	
1 9	i	•	61.1		•	630.0			1		) }	
10	i		60.5			700.0			i		İ	
1.1	i	•	58.0			770.0			i		i '	
12	i	•			-	840.0		•	i		i	
13	i	•	•			910.0			İ		· ì	
1 14	Ì	•	0.0		•	980.0	•		İ		j	
j 15	İ	900.0	0.0		•	1050.0	•	0.0	İ		į	
16	İ	960.0	0.0	0.0	İ	1120.0	0.0	0.0	İ		į	
17	Ì	1020.0	0.0	0.0		1190.0	0.0	0.0	Ì		ĺ	
18		1080.0	0.0	0.0		1260.0	0.0	0.0	I			;
19	-	1140.0	0.0	0.0		1330.0	0.0	0.0				<b>!</b>
20	•	1200.0	•		•	1400.0	•	:			[	1
21	•	1260.0		•	•	1470.0	•				]	ĺ
22	•	1320.0	•	•	•	1540.0	•		-		İ	
23	•	1380.0	•		•	1610.0	•	: :	ļ		]	
24	•	1440.0	•		•	1680.0	•	: :	!		[	
25	•	1500.0	•		•	1750.0	•	:	ļ			
26	•	1560.0	•		•	1820.0	•	•			!	
27	- 1	1620.0	•		•	1890.0	•	•	ļ			
28	-	11680.0			:	1960.0	•	: :	1		{	
29	•	1740.0	0.0	0.0	•	2030.0	•	001	ļ		ļ	
30	•	11800.0	0.0		•	{2100.0  2170.0		i	i		l i	i .
31		1860.0  1920.0	0.0		•	2240.0	0.0	0.0	-		i I	
33	•	1980.0	0.0		•	2310.0	0.0	0.0	ļ		; ;	
34	•	2040.0	0.0		•	2380.0	0.0	0.0	i		) )	
35	•	2100.0	0.0		•	2450.0	0.0	0.0	ì		1	
36	•	2160.0	0.0		•	2520.0	0.0	0.0	i		; 1	 
37	•	2220.0	0.0		•	2590.0	0.0	0.0	i			
38		2280.0	0.0		•	2660.0	0.0	0.0	j		j	
39		2340.0	0.0		•	2730.0	•	0.0	İ		;	
40	•	2400.0	•		•	2800.0	•	0.0	İ			
+	-+	+	+		<b> -</b> -	+		t	-+-		,	
+			+		•	<del> </del>	•	•	•		<del> </del>	
1	0.	ASPL	107.6	•	•	•	•	95.7	•			
- <del></del>			t	<b></b>	-	t	h	H	- <del> -</del> -		†	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 7 ( PITCH ANGLE: 23.7 DEG )

	·}	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		DATA-I	TAIGS	RUN			
·•	l , C⋈⋅	-i / 1		Cti-	-2 / 1	L03		<b>.</b>	
HN	F	SPL	SPLA	•	SPL	SPLA	F	SPL	SPLA
1		104.5		•	•	84.9			
2	120.0	•	: :	140.0		85.1			
3	180.0	81.1	:			80.7	ļ	!	
4	240.0	:	,	280.0	•	68.1			
5	300.0	72.2		350.0	•	0.0		i i	! !
6	360.0    420.0	68.8   66.3		420.0	•	0.0     0.0	1	! !	. !
8	420.0	66.7	:	560.0	•	0.0		i	
	540.0	59.9	:	630.0	3	0.0	1	! 	i
10	600.0	0.0	0.0	700.0		0.0		:	i
11	660.0	0.0	0.0	770.0	:	0.0	i	i	i
12	720.0	0.0	0.0 i	840.0	•	0.0	i	İ	İ
13	780.0	0.0	0.0	910.0	0.0	0.0	į	Ì	İ
14	840.0	0.0	0.0	980.0	0.0	0.0	İ	1	
15	900.0	0.0	•	1050.0	•	0.0			ļ ļ
16	960.0	0.0	0.0	1120.0	•	0.0	1	}	
17	11020.0	0.0	:	1190.0	•	0.0		]	
18	1080.0	0.0	0.0	1260.0	0.0	0.0			
19	1140.0	0.0	•	1330.0	0.0	0.0			
20	11200.0	0.0	0.0	1400.0	0.0	0.0		1	[
21	1260.0   1320.0	0.0	0.0	1540.0	0.0	0.0			
23	1380.0	0.0	•	1610.0	0.0	0.0			) <u> </u>
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1		: 
25	1500.0	0.0	0.0	1750.0	0.0	0.0	i	ì	i
	1560.0	0.0	•	1820.0	0.0	0.0	i	i	
•	1620.0	0.0	•	1890.0	•	i 0.0 j	İ	İ	
28	11680.0	0.0	j 0.0 j	1960.0	0.0	0.0	İ		
29	1740.0	0.0	0.0	2030.0	0.0	0.0		1	
	1800.0	0.0		2100.0	0.0	0.0		ļ	
•	1860.0	•		2170.0	•	•	ļ		
•	1920.0	0.0		2240.0	•	:	!	ļ	
•	11980.0	•	•	2310.0	•	: :	j	ļ	. !
•	112640.0	0.0	: :	2380.0	:	:			
•	2100.0   2160.0	0.0		2450.0  2520.0	•	:	i I	]	; !   !
•	2220.0	0.0		2520.0	•	•	1		! ! } !
•	12280.0	7	•	2660.0	•				
•	2340.0	•	•	2730.0	•	:	i	Ì	
•	2400.0	•		2800.0	•	: :	i	j	j i
÷	î. ∱	+		<del></del>	•	•	·	·	+
+		+	•		•	•	+	<del>+</del>	
	OASPL							1	<b> </b>
<b>+</b>		<del></del>	+		h	+	+	+	<del> </del>

- FREQUENCY HZ

MICROPHONE: MP 9 ( PITCH ANGLE: 23.7 DEG )

	4					DATA-1	POINT /	RUN	-			<del> </del>
+		CN-	-1 / 1	104		CN-	-2 / 1	103			<b>.</b>	 
H	N	F	SPL	SPLA	  -	F	SPL	SPLA		F	SPL	SPLA
•	1	Ι	107.2		ļ	•	109.6	83.4	ļ			
•	2	120.0	99.9	83.8	ļ		105.5	89.4	-		ļ	
•	3	180.0	92.4	81.5	ļ	210.0	96.6	85.7	ļ			
•	4	240.0	81.4	72.8	ļ	•	100.7	92.1	ļ		} 1	
•	5	300.0	79.9	73.3		350.0	93.2	86.6	ļ		 	! !
•	6	360.0	78.1	73.3	ļ	420.0	85.7	80.9	ļ			
•	7   8	420.0 480.0	60.0 0.0	55.2 0.0	!	490.0   560.0	80.8     82.0	77.6     78.8	1		] 	 
:	9	540.0	0.0	0.0	l	630.0	75.3	73.4	!		] ]	
•	o l	600.0	0.0	0.0	l	700.0	68.6	66.7	1		! 	
	•	660.0	0.0	0.0		770.0	0.0	0.0	i		]	
•	2	720.0	0.0	0.0	i	840.0	0.0	0.0	i			
•	3	780.0	0.0	0.0	i	910.0	0.0	0.0	i			i i
•	4	840.0	0.0	0.0	i	980.0	0.0	0.0	i		i	i
•	5 j	900.0	0.0	0.0	İ	1050.0	0.0	0.0	İ			i i
1	6	960.0	0.0	0.0	İ	1120.0	0.0	0.0	İ			
1	7	1020.0	0.0	0.0	ĺ	1190.0	0.0	0.0	ĺ			
1	8	1080.0	0.0	•	l	1260.0	0.0	0.0	1			
1	•	1140.0	0.0	•	•	1330.0	0.0	0.0	1			
•		1200.0	0.0	•	•	1400.0	0.0	0.0	ļ			
2		1260.0	0.0		•	1470.0	0.0	0.0	ļ			
•	•	1320.0	0.0		•	1540.0	0.0	0.0	ļ			
•	•	1380.0	0.0		•	1610.0	0.0	0.0	ļ			. !
•	•	1440.0	0.0		•	1680.0	0.0	0.0	ļ			!
2	•	1500.0	0.0		•	1750.0	0.0	0.0	ļ			
•	•	1560.0	0.0	•	•	1820.0	0.0	0.0	ļ			
2	•	1620.0  1680.0	0.0		•	1890.0  1960.0	0.0	0.0			] 	
1 2	•	11740.0	0.0	0.0	•	2030.0	0.0   0.0	0.0     0.0	1		] 	
•	•	1800 .ត	0.0		•	2100.0	0.0	0.0	i			
3	•	1860.0	0.0		:	2170.0	0.0		i			
:	•	1920.0	0.0		•	2240.C	0.0	0.0	i			i
3		1980.0	0.0		•	2310.0	0.0	0.0	i		i	
3		2040.0	0.0		•	2380.0	0.0	0.0	İ		j	
j s		2100.0	0.0		•	2450.0	0.0	0.0	j			Ì
1 3	6	2160.0	0.0	0.0	Ì	2520.0	0.0	0.0	ĺ			İ
<b>j</b> 3	7	2220-0	0.0	0.0	l	2590.0	0.0	0.0	ļ		<b>j</b>	İ
3	•	2280.0	•	•	•	2660.0	0.0	0.0				
•		2340.0			•	2730.0	0.0	: :	ļ		!	ļ
4	0	2400.0		•	•	2800.0	•		ļ		!	
+	+-	<del> </del>	<b>├</b>		•	•	+		÷	~~~~~	<del></del>	r
+		acor		•		+ !		95.8	•		r	 
 +		ASPL	108.1	•	•	 	•	•	•		; 	; }
,			, · · <del>-</del> -		•		,		•		•	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 1 ( PITCH ANGLE: 23.7 DEG )

	+			-	DATA-	POINT /	RUN			<del> </del>
	CN	I-3 / :	101	!	l cn	·		CN	-7 /	99
HN	++  } F	SPL	+   SPLA	ŀ	+   F	SPL	SPLA	F	SPL	SPLA
] 1	60.0	99.5	73.3	<del> </del> -	70.0	104,6	78.4	75.0	107.5	85.0
2	120.0	88.7	72.6	ļ	•	92.7			102.3	88.9
3	180.0	74.9	•	ļ	:	93.6	82.7	•	95.0	86.4
4	240.0	79.8	•	ļ	:	87.9	•	300.0	•	•
5	300.0	•	63.4	ļ	350.0	•	76.1	•	•	•
6	[] 360.0	•	65.5	l	420.0	71.0	66.2	•	•	•
7	420.0			•	490.0	62.8	59.6	525.0	•	•
8	480.6	56.8		ļ	560.0	•	0.0	600.0	•	
9	540.0	0.0		ļ	630.0	•	0.0	675.0	•	•
10	600.0	0.0	0.0	l	700.0	•	0.0	750.0	68.0	67.2
11	660.0	0.0	0.0	ļ	770.0	•	0.0	825.0	*	64.0
12	720.0	0.0	•	ļ	840.0	0.0	0.0	900.0	•	56.0
1 14	780.0    840.0	0.0	0.0	ļ	910.0   980.0	0.0	0.0	975.0	•	0.0
1 15	900.0	0.0	0.0	ŀ	1050.0	0.0	0.0	11050.0	•	0.0
16	960.0	0.0	0.0		1120.0	0.0	0.0	11125.0 111111.0	0.0	0.0     0.0
1 17	11020.0	0.0	0.0	•	1120.0	0.0	0.0	12/5	0.0	0.0
18	11020.0	0.0	0.0	•	1260.0	0.0	0.0	1350.0	0.0	0.0
19	11140.0	0.0	0.0	•	1330.0	0.0	0.0	1425.0	•	0.0
20	1200.0	0.0	0.0	•	1400.0	0.0	0.0	1500.0	:	0.0
21	1260.0	0.0	0.0	•	1470.0	0.0	0.0	1575.0	•	0.0
22	1320.0	0.0	•	•	1540.0	0.0	0.0	1650.0	•	0.0
23	11380.0	0.0	•	•	1610.0	0.0	0.0	1725.0	•	0.0
24	1440.0	0.0	•	•	1680.0	0.0	0.0	1800.0	•	0.0
25	1500.0	0.0	•	•	1750.0	0.0	0.0	1875.0	•	0.0
26	1560.0	0.0	•		1820.0	0.0	0.0	1950.0	•	0.0
27	1620.0	0.0	0.0		1890.0	0.0	0.0	2025.0	0.0	0.0
28	1680.0	0.0	•	•	1960.0	•	0.0	2100.0	•	0.0
j 29	1740.0	0.0	•	•	2030.0	•		2175.0	0.0	0.0
•	1800.0	0.0	•	•	2100.0	0.0	•	2250.0	0.0	0.0
j 31	1860.0	0.0	j 0.0	İ	2170.0	0.0	0.0	2325.0	0.0	i o.o i
32	11920.0	0.0	•	•	2240.0	0.0	•	2400.0	•	:
33	11980.0	0.0	0.0	Ì	2310.0	0.0	•	2475.0	0.0	i 0.0 j
34	12040.0	0.0	0.0	1	2380.0	0.0	0.0	2550.0	0.0	0.0
35	12100.0	0.0	0.0	Ì	2450.0	0.0	0.0	2625.0	0.0	i 0.0 j
36	2160.0	0.0	0.0	1	2520.0	0.0	0.0	2700.0	0.0	0.0
37	112220.0	0.0	0.0	Į	2590.0	0.0	0.0	2775.0	0.0	0.0
38	112280.0	0.0	-	•	2660.0	0.0		2850.0		0.0
•	1 2340.0	:	•	•	2730.0	•	•	2925.0	•	0.0
40	[[2400.0	0.0	•	•	2800.0	•	•	3000.0	•	0.0
+	++	+							+	+
+		•	•	•	+	•		•	+	+
!	OASPL	•	78.0	•	•	•	86.4	•	•	94.4
+		+	+	+	<del>+</del>	t	+		t	t

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 2 ( PITCH ANGLE: 23.7 DEG )

•	+ 			-	DATA-1	POINT /	RUN	-			+
++	CN-	-3 / 1	101		CN-	-4 / 1	100		CN-	-7 /	99   ++
HN	F	SPL	SPLA	  -	F	SPL	SPLA	 	F	SPL	SPLA
1 1	•	100.2	74.0		•	107.7		İ		112.7	•
2	120.0	95.4		į		104.1	88.0	ļ	150.0	108.2	•
3	180.0	92.8 78.8	81.9	i	210.0	98.5	87.6 86.7		225.0   300.0	101.5	1 1
4	300.0	78.8	70.2	ŀ	280.0   350.0	95.3   89.7	83.1		375.0	98.6 97.3	1 1
6	360.0	72.3		I I	420.0	86.5	81.7	ŀ	450.0	93.6	: :
7 1	420.0	66.6	61.8	ŀ	490.0	81.8	78.6	l	525.0	91.8	: :
8	480.0	0.0	0.0	i	560.0	75.7	72.5	l	600.0	85.6	: :
	540.0	0.0	0.0	ľ	630.0	72.6	70.7	l	675.0	81.0	79.1
10	600.0	0.0	0.0	i	700.0	67.5	65.6	i	750.0	76.2	
111	660.0	0.0	0.0	i	770.0	63.9	63.1	i	825.0	77.4	76.6
12	720.0	0.0	0.0	i	840.0	0.0	0.0	i	900.0	73.6	73.6
13	780.0	0.0	0.0	İ	910.0	0.0	0.0	i	975.0	66.1	66.1
14	840.0	0.0	0.0	i	980.0	0.0	0.0	İ	1050.0	58.7	58.7
i 15 i	900.0	0.0		İ	1050.0	0.0	0.0	•	1125.0	58.4	j 59.0 j
16	960.0	0.0	0.0	İ	1120.0	0.0	0.0		1200.0	59.5	60.1
17	1020.0	0.0	0.0	ĺ	1190.0	0.0	0.0	İ	1275.0	0.0	0.0
18	1080.0	0.0	0.0	ĺ	1260.0	0.0	0.0	ĺ	1350.0	0.0	0.0
19	1140.0	0.0	0.0	l	1330.0	0.0	0.0		1425.0	0.0	0.0
	1200.0	0.0	0.0	I	1400.0	0.0	0.0	1	1500.0	0.0	0.0
	1260.0	0.0	0.0	1	1470.0	0.0	0.0	•	1575.0	0.0	0.0
•	1320.0	0.0			1540.0	0.0	0.0	•	1650.0	0.0	0.0
	1380.0	0.0			1610.0	0.0	•	•	1725.0	0.0	0.0
. ,	1440.0	0.0		•	1680.0	0.0		•	1800.0	0.0	0.0
	1500.0	0.0			1750.0	0.0		•	1875.0	0.0	0.0
	1560.0	0.0		•	1820.0	0.0			1950.0	0.0	0.0
	1620.0	0.0	•	•	1890.0	0.0	•	•	2025.0	0.0	0.0
	1680.0	0.0	•		1960.0	0.0			2100.0	0.0	0.0
	11740.0	0.0		•	2030.0	0.0			2175.0	0.0	0.0
	1800.0  1860.0	0.0			2100.0  2170.0	0.0	•		2325.0	0.0	0.0
	1920.0				2240.0		•	•	2400.0	•	
	1980.0			•	2310.0				2475.0		
	2040.0			•	2380.0				2550.0		
	2100.0			•	2450.0				2625.0		
	2160.0			•	2520.0	•	•	•	•	•	
	2220.0			•	2590.0	•	•	•	-	-	•
38	2280.0	0.0	0.0								
39	2340.0	0.0	0.0	į	2730.0	0.0	0.0	į	2925.0	0.0	j 0.0 j
	2400.0										
++	÷	+		+	+	+		+	+	+	++
-				•							
	ASPL										
•		•		•	•	•	•	•	•	•	•

- FREQUENCY HZ

MICROPHONE: MP 3 ( PITCH ANGLE: 23.7 DEG )

	+			DATA-	POINT /	RUN			+
++	CN-	-3 / 1	i91	] CN	-4 / 1	•	CN	-7 / +	99   
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
1 1		103.5		•	109.3		•	114.0	•
2   3	120.0	97.3 91.3	81.2 80.4	140.0	105.6	89.5     89.9	•	109.9  105.8	96.5     97.2
, ,	240.0				•	87.7		101.3	•
5	•	•	•	350.0		85.9	•	101.7	: :
6	•	•	•		:	85.2	: .	•	•
7 1	7	•		490.0	•	80.8	:	91.6	•
	480.0	•		560.0	•		: .	•	•
9	540.0	0.0		630.0	•	73.3	•	•	•
j 10 j		0.0	0.0	700.0	•	71.1	:	•	,
111	660.0	0.0	•	770.0	•	•	825.0	•	79.0 i
12	720.0	0.0	0.0	840.0	0.0	j 0.0 j	900.0	77.7	77.7
13	780.0	0.0	0.0	910.0	0.0	0.0	975.0	74.3	74.3
14	840.0	0.0	0.0	980.0	0.0	0.0	1050.0	69.7	69.7
15	900.0	0.0	0.0	1050.0	0.0	•	1125.0	62.1	62.7
16	960.0	0.0	0.0	1120.0	0.0	•	1200.0	59.8	60.4
17	1020.0	0.0	0.0	1190.0	0.0		1275.0	61.2	61.8
18	1080.0	0.0	0.0	1260.0	0.0		[1350.0	54.8	55.4
19	1140.0	0.0	•	1330.0	0.0		1425.0	0.0	0.0
20	1200.0	0.0	•	1400.0	0.0	: :	1500.0	0.0	0.0
21	1260.0	0.0	0.0	11470.0	•	0.0	1575.0	0.0	0.0
22	11320.0	0.0	0.0	1540.0	0.0	:	11650.0	0.0	0.0
23	11380.0	0.0		1610.0	0.0	•	11725.0	0.0	0.0
24	1440.0 1500.0	0.0	•	1680.0   1750.0	0.0	: :	11800.0	0.0	0.0
	1560.0	0.0	•	1820.0	0.0	•	1875.0 1950.0	0.0	0.0
	1620.0	0.0		11890.0	0.0	: :	2025.0	0.0	0.0
	1680.0	0.0	•	1960.0	0.0	•	2100.0	0.0	0.0
	1740.0	0.0	•	2030.0	0.0		2175.0	0.0	0.0
	1800.0	0.0	•	2100.0	0.0		2250.0	0.0	0.0
. ,	1360.0		•	2170.0	,		2325.0		
	1920.0			2240.0			2400.0		7
	1980.0		0.0	2310.0			2475.0	0.0	0.0
	2040.0			2380.0			2550.0		0.0
	2100.0	-		2450.0		•	2625.0	•	0.0
	2160.0			2520.0			2700.0		0.0
•	2220.0	•	0.0	2590.0	0.0	0.0	2775.0	0.0	0.0
	2280.0		0.0	2660.0	0.0	0.0	2850.0	0.0	0.0
39	2340.0	0.0	0.0	2730.0	0.0	0.0	2925.0	0.0	0.0
	2400.0								
	ASPL								
•	nord 	104. / 	UJ./	 <del>   </del>				1 1 U . J	+
-		-	-		-	•	· -	•	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 5 ( PITCH ANGLE: 23.7 DEG )

	DATA-POINT / RUN									
++	CN-	-3 / 3	101		CN-	-4 / i	100	CN	-7 /	99   
HN	F	SPL	SPLA		F	SPL	SPLA	F	SPL	SPLA
1 1	•	105.2	79.0			112.1	85.9	•	115.5	93.0
	120.0	98.5	82.4	H		108.3	92.2	•	1111.9	98.5
3	180.0	89.6	78.7	H	210.0	99.6	88.7	•	105.7	97.1
4	240.0	83.5	74.9		280.0	98.8	90.2	•	106.3	99.7
5	300.0	82.0	75.4	H	350.0	96.5	89.9	•	104.6	99.8
1 7 1	360.0	79.2	74.4				85.0	•	93.2	90.0
8	420.0	67.1	62.3	H	490.0	82.8	79.6	525.0	91.4	88.2
9	540.0	•	!		560.0	81.8	78.6	600.0	92.0	90.1
10	600.0	0.0	•		630.0	76.5   73.5	74.6	675.0   750.0	87.7	85.8     81.4
111	660.0	0.0	!	H	700.0 770.0	66.4	71.6     65.6	825.0	82.2   79.9	81.4     79.1
12	720.0	0.0		1	840.0	61.3	60.5	900.0	1 74.2	79.1
13	780.0	0.0	•	Н	910.0	0.0	0.0	975.0	73.0	73.0
14	840.0	0.0	•		980.0	•	0.0	1050.0	71.4	71.4
15	900.0	0.0	,		1050.0	•	0.0	11125.0	63.5	64.1
16	960.0	0.0	•	•	1120.0		0.0	1	0.0	0.0
	1020.0	0.0	•		1190.0	•		1275.0	0.0	0.0
•	1080.0	0.0	•	٠.	1260.0	•	•	1350.0	0.0	0.0
	1140.0	0.0	•		1330.0	0.0	•	1425.0	•	0.0
	1200.0	0.0	•		1400.0	0.0		1500.0		0.0
	1260.0	0.0	•		1470.0	•		1575.0	•	0.0
	1320.0	0.0	•		1540.0	•	•	1650.0	•	0.0
	1380.0	0.0	•	•	1610.0	•		1725.0	•	0.0
	1440.0	0.0	•	•	1680.0	•	•	1800.0	•	0.0
	1500.0	0.0	•	•	1750.0	•	•	1875.0	•	υ.0
	1560.0	0.0	•		1820.0	•		1950.0	0.0	0.0
27	1620.0	0.0	0.0	İ	1890.0	0.0	0.0	2025.0	0.0	0.0
28	1680.0	0.0	0.0		1960.0	0.0	0.0	12100.0	0.0	0.0
29	1740.0	0.0	0.0	Ì	2030.0	0.0	0.0	2175.0	0.0	0.0
30	1800.0	0.0	0.0		2100.0	0.0	0.0	2250.0	0.0	0.0
•	1860.0	•	-	•	2170.0	-	0.0	2325.0	0.0	0.0
	1920.0	·		•	2240.0	7	: :	2400.0	•	: :
· :	1980.0	•	•	•	2310.0	•	:	2475.0	•	: :
: :	2040.0	:	•	•	2380.0	:	:	2550.0	•	•
	2100.0	•	•	•	2450.0	•		2625.0	•	: :
•	2160.0	•	•	•	2520.0	0.0	•	2700.0	1	•
	2220.0	•	•	•	2590.0	•	•	2775.0	•	: :
	2280.0							2850.0		
	2340.0									: :
	12400.0									
1 0	ASPL	106.2	86.2	l		114.0	97.3 [	1	118.0	105.6
<b></b>		t	<del> </del>	1-1		f	+	- <del>-</del>	<del>+</del>	++

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 4 ( PITCH ANGLE: 23.7 DEG )

	+	DATA-POINT / RUN									
+		CN·	-3 / 1	101	CN	-4 / :	100	CN	-7 / +	99   	
HI	N	F	SPL	SPLA	; F	SPL	SPLA	F	SPL	SPLA	
	1		105.0	•	•	110.9		•	1114.7	92.2	
•	2   3		95.0		-	106.6		•	•	97.2	
•	3   4	•	87.3		210.0	•	90.2   91.1	•	107.4  104.4		
•	5	300.0			•	•	86.8	•	101.2	•	
•	6				420.0	•		•	•		
•	7	420.0		•	490.0		82.6	:	•	•	
:	8	480.0			•	82.9	•	•	•	•	
•	9		•	•	630.0	•	•	675.0	•	85.9	
1	:	1		•	700.0	•	•	:	•	84.0	
1	•	!	•	•	770.0	•	66.7	•	79.5	•	
1	•	:		•	840.0	•	: . :	900.0	•		
1 13	•	:		•	910.0	•	:	975.0	75.2	•	
1 1	•	840.0			980.0	•	•	1050.0	70.8	•	
1.	•	:			1050.0	•		1125.0	67.9		
1	•	960.0		•	1120.0	•		1200.0	63.0	•	
1		1020.0	•	•	1190.0	•		1275.0	•		
1 18	•	1080.0		•	1260.0	•		1350.0			
1 1	9 j	1140.0	0.0	0.0	1330.0	0.0	0.0	1425.0	38.2		
j 20	o j	1200.0	0.0	0.0	1400.0	0.0	0.0	1500.0	0.0	•	
2	1	1260.0	0.0	0.0	1470.0	0.0	0.0	1575.0	0.0	0.0	
2	2	1320.0	0.0	0.0	1540.0	0.0	0.0	1650.0	0.0	0.0	
2:	3	1380.0	0.0	0.0	1610.0	0.0	0.0	1725.0	0.0	0.0	
1 24	4	1440.0	0.0	•	1680.0	•	0.0	1800.0	0.0	0.0	
2	•	1500.0	0.0		1750.0		•	1875.0	0.0	0.0	
20	•	1560.0	0.0		1820.0		•	1950.0	0.0	0.0	
2	•	1620.0	0.0	•	1890.0	•		2025.0	0.0	0.0	
2	•	1680.0	0.0	•	1.960.0	0.0		2100.0	0.0	0.0	
2	- 1	1740.0	0.0		2030.0	0.0	,	2175.0	0.0	0.0	
30		1800.0	0.0		•	0.0	: :	2250.0	0.0	0.0	
3		1860.0			2170.0	0.0		12325.0	0.0	0.0	
3:	•	1920.0	0.0		2240.0	0.0	1	2400.0	0.0	0.0	
3:	•	1980.0	0.0	:	2310.0	0.0	: :	2475.0	0.0	0.0	
34	•	2040.0	0.0	•	2380.0	0.0	:	2550.0	0.0	0.0	
3.	•	2100.0	0.0		2450.0  2520.0	0.0	: :	2625.0	0.0	0.0	
3		2160.0 2220.0	0.0	•	2520.0	0.0 0.0	: :	2700.0  2775.0	0.0	0.0	
3	•	2220.0	•		2660.0	0.0	:	i	0.0	0.0	
3		2340.0	-	•	2730.0			2925.0	•	0.0	
•	•	2400.0	•	•	2800.0	1	1	3000.0	*	•	
•		,		•	+	,	•	•	•	,	
+		•	•	-	+					· 	
1	0,	ASPL	106.0	8ó.5	1	112.9	96.9	ì	1117.1	104.9	
+				<del> </del>		+	+	+	+	+	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 9 ( PITCH ANGLE: 23.7 DEG )

	DATA-POINT / RUN										
++	CN·	-3 / 1	101		CN-	-4 / 1 	100	<b>)</b>	CN	-7 / <del></del>	99   
HN	F	SPL	SPLA		F	SPL	SPLA	  -	F +	SPL	SPLA
1 1	•	106.3	80.1			108.6	•		•	113.4	90.9
2	120.0	98.2 91.5				105.2   96.0	89.1 85.1	l	•	108.7  101.4	95.3     92.8
3	240.0	76.6				100.2	91.6	!	•	101.4	98.3
1 5 1	300,0	78.9	72.3		350.0	93.3	86.7	i i	•	101.9	97.1
6	•	68.1	63.3	ì	420.0	84.6	79.8	j	450.0	94.7	91.5
7 1	420.0	0.0				84.1	80.9	1	525.0	92.5	89.3
8	480.0	0.0	0.0		560.0	81.1	77.9	!	600.0	90.4	88.5
	540.0	0.0	0.0		630.0	75.5	73.6	i	675.0	86.1	84.2
10	600.0	0.0	0.0		700.0	70.6	68.7	i	750.0	83.1	82.3
111	660.0	0.0	0.0		770.0	•	0.0	i	825.0	81.1	80.3
12	720.0	0.0	0.0	Ì	840.0	•	Ĭ	ì	:	77.6	77.6
13	780.0	0.0	0.0	i	910.0	•	0.0	i	975.0	75.5	75.5
14	840.0	0.0	0.0	i	980.0	•	0.0	i	1050.0	68.6	68.6
	900.0	0.0	•		1050.0	•	•	•	1125.0	67.6	68.2
16	960.0	0.0		•	1120.0	•	•	•	1200.0	63.4	64.0
	1020.0	0.0		•	1190.0	•	•	•	1275.0	0.0	0.0
•	1080.0	6.0	0.0	İ	1260.0	0.0	•	•	1350.0	0.0	0.0
19	1140.0	0.0	0.0	ĺ	1330.0	0.0	0.0	j	1425.0	0.0	0.0
20	1200.0	0.0	0.0	ĺ	1400.0	0.0	0.0	١	1500.0	0.0	0.0
21	1260.0	0.0	0.0		1470.0	0.0	0.0	ĺ	1575.0	0.0	0.0
22	1320.0	0.0	0.6	l	1540.0	0.0	0.0	١	1650.0	0.0	0.0
23	1380.0	0.0	0.0	1	1610.0	0.0	0.0	١	1725.0	0.0	0.0
24	1440.0	0.0	0.0	ı	1680.0	0.0	0.0	l	1800.0	0.0	0.0
	1500.0	0.0	6.0	Î	1750.0	0.0	0.0		1875.0	0.0	0.0
	1560.0	0.0	0.0		1820.0	0.0	•	•	1950.0	0.0	0.0
	1620.0	0.0		•	1890.0	•	•	•	2025.0	0.0	0.0
• •	1680.0	0.0		•	1960.0		•	•	2100.0	0.0	0.0
•	1740.0	0.0	•	•	2030.0	0.0			2175.0	0.0	0.0
•	1800.0	0.0	•	•	2100.0	0.0	:	:	2250.0	0.0	0.0
	1860.0	:		•	2170.0	7	•	•	2325.0	:	0.0
, ,	1920.0	0.0	•	•	2240.0	•	•		2400.0	0.0	0.0
	1980.0	0.0	:	-	2310.0	0.0	•	•	2475.0	0.0	0.0
: :	2040.0	0.0		:	2380.0	!	·		2550.0	0.0	0.0
	2100.0	0.0		•	2450.0	0.0	•		2625.0	0.0	0.0
•	2160.0	0.0	0.0	•	2520.0	0.0	•	7	2700.0	0.0	0.0
	2220.0	0.0	•	•	2590.0	•	•	•	2775.0	0.0	0.0
	•	0.9	•	•	2660.0	•	•	•	2850.0	0.0	0.0
•	2340.0	•			2730.0				2925.0  3000.0		0.0
	2400.0	•	•	•	•	•	•	-	3000.0 <del> </del>	•	0.0
4	•	•	-	•	•	-	•	•	+	-	, 
1 0		107.0	•	•	•	110.9	•	•	•	•	103.4
+									, +		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 1 ( PITCH ANGLE: 23.7 DEG )

		DATA-POINT / RUN										
÷		CN	-5 /		_	CN-	-	102			<b></b>	 
1+	HN j	F	SPL	SPLA.	Ì	F	SPL	-		F	SPL	SPLA
į	1	80,0	107.6	85.1	į	43.1	81.8	47.2	•			ļ
ļ	2					86.2						
1	3					129.3						
1	•					172.4		0.0	•		1	
1	5	•	•	•	•	215.5		<b>?</b>	•		! !	
ļ	•	480.0	•	•	•	•		0.0	•			
1		560.0						•				
	9	640.0	•	•	•	344.6		0.0	: :		 	
1		800.0	•	•	•	•		•	: :		} 	
1		880.0	•	•	•	•		•	: :		; 	! !
1	•	960.0	•	•	•	•		•	: :		l 	
i		11040.0	•	:	•	560.3		•	: :		! !	 
¦		1120.0	•	•	•	603.4			: :			
i	•	1200.0	•	•	•	646.5		•	: :		1	
i		1280.0			•	689.6		•	 			
i	•	•	•	:	•	732.7		•	 		) 	
i	•	1440.0	•	•	:	775.8	,	•				i i
ì		1520.0	•		:	818.9		:			<u> </u>	i i
i	:	1600.0	•	•	•	862.0		•	;   1		<u> </u>	
i	•	1680.0	•	•	:	905.1		•	: ; 			1
i	22	1760.0	•	:	:	948.2			:			i i
i	23	1840.0	•		•	991.3		1	ii			į
į	24	1920.0	•	•	•	1034.4		:	i			i
j	25	2000.0	•	•	•	1077.5		:	İì		į	i
į	26	2080.0	•	•	•	1120.6		•	i			i
į	27	2160.0				1163.7		0.0	İ		<b>)</b>	i
ì	28 j	2240.0	0.0	•	•	1206.8		0.0	ij		į	i i
1	29	2320.0	0.0	•		1249.9	0.0	0.0	ij		ļ	i i
1		2400.0	0.0			1293.0	0.0	•			ļ	İ
-		2480.0				1336.1		•			į į	
-		2560.0	1	:		1379.2	0.0	0.0	İ		[	
-	•	2640.0	1	:	•	1422.3	0.0	0.0				
-		2720.0	0.0	•	•	1465.4	0.0	0.0	إإ			
-		2800.0	0.0	:	•	1508.5	0.0	0.0				
ļ	•	2880.0	0.0	:	•	1551.6	0.0	0.0				
-	:	2960.0				1594.7		0.0				
ļ			0.0			1637.8		0.0			!	
ļ		3120.0				1680.9			ľ			į
1		3200.0	•	•	•	1724.0		•				
+	·	+	•	•	•	•		•	<del>} -</del>		}	;
+	~					<del> </del>		-				
!		ASPL	•		•	•		53.5				
+			r	r	1	T	r		-		r	r

- FREQUENCY HZ

MICROPHONE: MP 2 ( PITCH ANGLE: 23.7 DEG )

	-					DATA-I	POINT /	RUN				   
+	-1	CN-	-5 /		•	ĵ CN-		102			<b>+</b>	   
HN	1	F	SPL		•	F		SPLA		F	SPL	SPLA
1 1	•			86.1				•				ļ
	ļ	•	•	95.8				•			] ;	<u> </u>
		•	106.0	7	•	129.3		•				
•						172.4   215.5			H		] ]	! !
· ·	ì					258.6		•		İ	[ [	] 
•	i					301.7					! !	! !
	•	640.0		92.4	i	344.8	0.0	•			! 	i
•	i	-	:			387.9					! !	 
•	•	•	•	•	•	431.0	•	•			<b>i</b>	i
11	•	•	•	•	•	474.1					1	i
•	-	960.0	•	•	•	517.2		•			i	j
•	•	1040.0	•	•	•	560.3					i	j
14	İ	1120.0	76.5	•	•	603.4		•	İ		j i	İ
15	Ì	1200.0	71.7	72.3	İ	646.5	0.0	0.0				İ
16	ĺ	1280.0	72.0	72.6	ĺ	689.6	0.0	0.0			}	1
17	-	1360.0	65.7	66.3		732.7	0.0	0.0	l		<b>i</b>	İ
•	•	1440.0	•	•		775.8	0.0	0.0				
•	•	1520.0	-	•	•	818.9	,	•				ļ
•	-	1600.0	•	•	•	862.0		:			[	
•	•	1680.0	•	•	•	905.1		•				!
	•	1760.0	•		•	948.2		•			!	!
•	•	1840.0	?	•	•	991.3	•	:			<u> </u>	ļ
•	•	1920.0	•	:	•	1034.4	•	•	l		!	!
•	•	2000.0	:	•	•	1077.5	•	:				
•	•	2080.6	•	•	•	1120.6		•		 	i .	ļ
•	•	2160.0 2240.0	•	•	•	1163.7	•	•			] 	] 
28	•	2320.0	•	•	•	1206.8   1249.9	•	•		 	! }	
30	•	2400.0	7	•	•	1293.0		•			1	
•	•	2480.0	:	•	•	1336.1		•			! }	
		2560.0		:	•	1379.2		0.0		!	<b>i</b> i	
•	•	2640.0	•	•	•	1422.3		0.0			<u>'</u>	i
•	•	2720.0	0.0	•	•	1465.4	•	0.0			į į	i
•		2800.0	0.0		•	1508.5	0.0	0.0			í	i i
•	-	2880.0	0.0	1	•	1551.6	0.0	0.0	İ		j i	i
•		2960.0	•		•	1594.7	0.0	0.0	ا		į i	i i
•	•	3040.0	•	:	:	1637.8		0.0	Į	Į	<b>i</b> i	İ
39		3120.0	0.0	•	•	1680.9	•	0.0		1	1	1
•		3200.0				1724.0		0.0			!	
+	+-	t				+ +		f	l−-i L		† 	⊬ <i>~~~~</i> ∳ Ь/-
T	<u></u>		•	104.8	•	•	83.8	•		,	 	
 	-		•	•	•	! }	•	•		•	1 }	) 

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DRA RE 2E-5 PA

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MICROPHONE: MP 3 ( PITCH ANGLE: 23.7 DEG )

	+ !		*****	DATA-	POINT /	RUN			
++	CN-	-5 / +	98	l cn	-6 / :	102		<b>+</b>	<b></b>
HN	F	SPL	SPLA	ļ F	SPL	SPLA	j F	SPL	SPLA
1 1	•	111.5	89.0	43.1	83.9	49.3			
2	•	110.0	96.6	86.2	77.6	55.1	ļ	ļ	İ
3	•	108.2	99.6	129.3	0.0	0.0		ļ	
4	•	105.9	99.3	172.4	0.0	0.0		!	
5	400.0	104.7	99.9	215.5	0.0	0.0	! ]	ļ	
6	480.0	102.7	99.5	258.6	0.0	0.0	<u> </u>	ļ	
7	560.0	98.5	95.3	301.7	0.0	0.0	!!	ļ	į
8	640.0	97.7	95.8	344.8	0.0	0.0	!!	ļ	
9	720.0	96.2	95.4	387.9	0.0	0.0		į	
10	800.0	92.1	91.3	431.0	0.0	0.0	ļ <b>i</b>		İ
11	880.0	89.9	89.1	474.1	0.0	0.0	!!		
12	960.0	88.1	88.1	517.2	0.0	0.0			
13	1040.0	85.0	85.0	560.3	0.0	0.0		ļ	
14	1120.0	80.7	80.7	603.4	0.0	0.0	. 1	ļ	
15	1200.0	79.1	79.7	646.5	0.0	0.0	<b>.</b>	1	
16	11280.0	78.3	78.9	689.6	0.0	0.0	1	<u> </u>	
17	1360.0	73.3	73.9	732.7	0.0	0.0		!	
18	1440.0	69.4	70.4	775.8	0.0	0.0		! 1	
19	1520.0  1600.0	66.8	67.8	818.9	0.0	0.0	! <b>!</b>	į į	
20	1680.0	0.0	0.0	862.0   905.1	0.0	0.0	: I	í 1	
22	1760.0	0.0	0.0	948.2	0.0	0.0     0.0	. }	[   }	 
23	1840.0	0.0	0.0	991.3	0.0	0.0	1	! !	 
24	1920.0	0.0	0.0	1034.4	0.0	0.0	j	! !	
25	2000.0	0.0	0.0	1077.5	0.0	0.0	1		
26	2080.0	0.0	0.0	1120.6	0.0	0.0			
27	2160.0	0.0	0.0	1163.7	0.0	0.0	i	1	
28	2240.0	0.0	0.0	1206.8	0.0	0.0	ì		
29	2320.0	0.0	0.0	1249.9	0.0	0.0	1	ì	
30	2400.0	0.0		1293.0	0.0	0.0		1	
•	2480.0	•	7	1336.1	0.0	: :	ı <b>i</b>	i	
32	2560.0	-	-	1379.2	0.0		ıi		
•	2640.0	•	:	1422.3		1	i	i	
•	2720.0	•		1465.4	•	0.0	i	į	
	2800.0	•		1508.5	0.0	0.0	ı <b>i</b>	i	
	2880.0		•	1551.6	•	: :	i	İ	
	2960.0		:	1594.7	•	•	j	İ	
	3040.0		J 0.0 j	1637.8	•	:	Ì	İ	
39	3120.0	0.0	1 0.0	1680.9	0.0	0.0	İ	İ	j
40	3200.0			1724.0		0.0	Ì	ĺ	į
++	+			+			+	+	h-~
+				+			•	<del></del>	<del>-</del>
) 0	ASPL		107.5			56.1		1	
+	~~~~~~~	t	+		+	<del> </del>		+	h

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 4 ( PITCH ANGLE: 23.7 DEG )

	-				-	DATA-I	POINT /	RUN		~ ~ ~ ~ ~ ~ ~ .	 إ
+		CN-	-5 / +	98 <del></del>		CN-	6 /	102		+	   
HN	İ	F +	SPL	SPLA	i i	F	SPL	SPLA	F	SPL	SPLA
1 1	1		114.7	•	İ	•	84.1		İ		į
2	-	160.0		96.6	!	86.2		0.0			
3	!		110.0  106.6			129.3		0.0	1		
5	1		105.3		ŀ	172.4   215.5		0.0     0.0	ł	! !	
6	i	•	102.0	:	l	258.6		0.0	1	1	}
7	i	560.0	•	•	•	301.7		0.0	1		i ! ! 1
8	ì	7	99.6	•	•	344.8		0.0	ì	i	
9	i	720.0	95.5	•	•	387.9		0.0	i	i	
10	i	800.0	93.3	:	•	431.0		0.0	i	j i	i
11	Ė	880.0	91.7		•	474.1		j 0.0 j	i	İ	İ
12	1	960.0	86.0	86.0	Ì	517.2	0.0	0.0	j	İ	İ
13		•				560.3	0.0	0.0	1	1	
14		1120.0	•		•	603.4		0.0			
15		1200.0		•	•	646.5		•	!	!	
16		1280.0	•	!	•	689.6		:	!	!!!	ļ
•	-	1360.0	•	•	•	732.7		: :	1	!	
•	•	1440.0	•	•	•	775.8		•	!		1
•	•	1520.0 1600.0	•	•	•	818.9   862.0		: :	-		
•	•	1680.0		:	•	905.1		:	}		
		1760.0	•	•		948.2		:	i	i i	!
		1840.0	•	:	•	991.3		0.0	i	i i	
24		1920.0	•		•	1034.4		0.0	;	i j	i
25		2000.0	•			1077.5		0.0	i	i i	i
26	İ	2080.0	0.0			1120.6		0.0	İ	i i	j
27		2160.0	0.0	0.0	Ì	1163.7	0.0	0.0	İ	İ	İ
•		2240.0	0.0	0.0	1	1206.8	0.0	0.0		l [	ĺ
•		2320.0				1249.9		0.0			- 1
1	- : :	2400.0	0.0		•	1293.0		0.0	[	!!	
•		2480.0	:		•	1336.1		:	2	! !	ļ
		2560.0	0.0		•	1379.2	0.0		]	!!!	- !
34	• •	2640.0	0.0			1422.3    1465.4	0.0	0.0	}		1
•		2720.0 2800.0	0.0		•	1508.5	0.0	0.0	1	<u> </u>	- !
-		2880.0	0.0			1551.6	0.0	0.0     0.0	[ [	!   	1
•		2960.0	0.0			1594.7	0.0	0.0	ļ	! , [ ]	Į Ŷ
•		3040.0	0.0		•	1637.8	0.0	0.0			
•		3120.0			•	1680.9	•		İ	i i	i
		3200.0			•	1724.0	•	,	j	j i	i
+	+1				+				+	+	
+		'		•	٠.				+	t	+
+	0.		118.0   			 		49.5   	•	 +	

- TREQUENCY HZ

MICROPHONE: MP 5 ( PITCH ANGLE: 23.7 DEG )

	+ 			DATA-I	POINT /	RUN		****	
++	CN-	-5 /	98	CN-	-6 / 3	102		<b></b>	 
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
1 1	•	117.1	94.6	43.1	80.3	45.7	į		
2	160.0	111.2	97.8	86.2	0.0	0.0	ļ		
3	240.0	108.9	100.3	129.3	0.0	0.0			
4	320.0	•	104.7	172.4	0.0	0.0	-		
5 1	400.0	205.1	100.3	215.5	0.0	0.0	ł	!	
6	480.0	99.7	96.5	258.6	0.0	0.0	1		
171	560.0	100.5 99.3	97.3	301.7	0.0	0.0		 	
9	720.0	99.5	97.4     92.8	344.8	0.0	0.0	ł	! !	
10	800.0	92.5	92.6     91.7	387.9	0.0	0.0	Į.	[ 	
111	880.0	86.8	86.0	431.0   474.1	0.0	0.0	1	} 	i   
12	960.0	87.7	87.7	517.2	0.0	0.0	1	} 	[ [
13	1040.0	85.0	85.0	560.3	0.0	0.0		ļ	
14	1120.0	78.8	78.8	603.4	0.0	0.0	1	j	
15	1200.0	78.5	79.1	646.5	0.0	0.0	i		
16	1280.0	77.0	77.6	689.6	0.0	0.0			
17	1360.0	71.8	72.4	732.7	0.0	0.0	i		1
18	1440.0	67.1	68.1	775.8	0.0	0.0	i		i
	1520.0	67.5	68.5	818.9	0.0	0.0	j	į	
j 20 j	1600.0	61.1	62.1	862.0	0.0	0.0	i	j	
21	1680.0	0.0	j 0.0 j	905.1	0.0	0.0	i		
22	1760.0	0.0	j 0.0 j	948.2	0.0	0.0	İ	j	
23	1840.0	0.0	0.0	991.3	0.0	0.0	Ì		
24	1920.0	0.0	0.0	1034.4	0.0	0.0	1	i	
25	12000.0	( 0.0	0.0	1077.5	0.0	0.0	1		
26	2080.0	0.0	0.0	1120.6	0.0	0.0	1		
27	[2160.0	0.0		1163.7	0.0	0.0	1	1	
	2240.0	0.0		1206.8	0.0	0.0	1		
	2320.0	0.0		1249.9	0.0	0.0	Ţ,	į ,	
•	2400.0	0.0		1293.0	0.0	0.0			
	2480.0	•		1336.1		:	•		
•	2560.0	•	7	1379.2		:	Į		
		:	:	1422.3			!	!	
•	2720.0	•	•	1465.4			!	ļ	
	2800.0	•		1508.5				ļ	
	•	•		1551.6				] 	!
	•	•	•	11594.7				i I	[ ]
•	•	•	•	1637.8  1680.9		· .	1		[ [
				1724.0			1		
	•	="		1/24.0 - <del> </del>			! - <del> </del>	 	 
	•	•		+			+	, 	, ====== 
-		119.7	109.0		80.3	45.7	Ì		
+		+	1	+			+		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 22-5 PA

MICROPHONE: MP 6 ( PITCH ANGLE: 23.7 DEG )

	+			DATA-	POINT /	RUN			   
4	CN-	-5 / 	98   	CN	-6 / I	102	 	<b></b>	   
HN	F	SPL	•	F	SPL	SPLA	F	SPL	SPLA
1 1			95.2		78.3	43.7	İ	ĺ	
2			96.2		•		ļ	!	
: :				129.3			ļ	ļ	
4	•			172.4			ļ	ļ	
	•	•	•	215.5	•	:	ļ	ļ	
: :		95.9		258.6	•			}	
7	•	•		301.7	•	:		1	
8		•		344.8	•	:	1	<u> </u>	
9	720.0	•	•	387.9	•	: :	1	į	
10	•	•	,	431.0	•	:	į į	<u> </u>	
11	•	•		474.1	•	:	 	 	] !
12		•		517.2		: :	<u> </u>	<u> </u>	! !
•	1040.0   1120.0	•		603.4	•	: :		 	
•	1200.0	•		646.5	•			<u> </u>	1
•	1280.0	-	•	689.6	•	•	<b> </b>	! 	
•	1360.0	•	•	732.7	•	:	1	i	!
	1440.0	•		775.8					,
	1520.0	•	•	818.9	:	:		İ	i i
	1600.0	•		862.0	•		i	i	i
•	1680.0	•		905.1	•	0.0	i	i	i
•	1760.0	:	•	948.2	•		i	İ	İ
•	1840.0	•		991.3	•	0.0	İ	į	İ
•	1920.0	:		1034.4	7	0.0		ĺ	İ
25	2000.0	0.0	0.0	1077.5	0.0	0.0		ĺ	
26	2080.0	0.0	0.0	1120.6	0.0	0.0		i	
	2160.0	•	•	1163.7	0.0	0.0	[	1	
	2240.0	:	•	1206.8	•	0.0		]	
	2320.0	:	•	1249.9	•	•		!	
	2400.0	•	•	1293.0	•	•		!	
	2480.0	:		1336.1	<u> </u>	:		!	
	2560.0	0.0	•	1379.2	Ī.	0.0		!	
		0.0	•	1422.3		0.0		<u> </u>	
	2720.0	0.0		11465.4	•	0.0	i   i	i t	
	2800.0	0.0		1508.5	•	0.0	i	i	
	2880.0	0.0	7	1551.6	•	0.0	<b> </b>   <b> </b>	! !	[ 
	1	0.0   0.0		1637.8	•	0.0     0.0	<b> </b>   <b> </b>	1	
	3040.0     3120.0	•	•	•	•	•	 		. ! ! !
•	3200.0	•	•	•	•	•			: 
•	3200.0  -	•	0.0   	•	•			· {	; <del> </del>
+	 	+	+	<del></del>	+	h	h-h	+	+
	DASPL							!	! !
+		+	+	+	+	<del></del>	h	+	+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 7 ( PITCH ANGLE: 23.7 DEG )

	<b>+</b>		~~~~	Pin / 1 to to Tin (all off	-	DATA~1	POINT /	RUN		. = =	***************************************	
4	} +	CN	-5 /			CN-	-6 /	102			<b></b>	 
HN	    1 <del> -</del>		SPL	•	•	F	SPL	SPLA		F	SPL	SPLA
1						43.1		•			!	
2			104.8					•	IJ		ļ	
	2 7		•	•	•	129.3		•			!	
1 4	3 2		•	•		172.4		<u>*</u>	ļ		ļ	
5	1 1		•	•	•	215.5		•				
	: :		•	•	•	258.6		1	ļ		1	
			•	•	•	301.7		•			!	
•	: :		0.0	•	•	344.8	•	•	Ş		ļ	
•	: :		0.0	•	:	387.9		:				
:	: :		0.0	:	-	431.0		•	ļļ		į .	
			0.0	•	•	474.1		•	[			
1	7 7		0.0	•	•	517.2	•	•				
*	• •		0.0	•	•	560.3	•	:	1		<u>[</u>	
7	7 7		0.0	•	•	603.4		•			i !	
	: :		0.0	*	•	689.6		0.0	1		[ [	
	: :		0.0	•	•	732.7	•	0.0			i 1	
	: :		0.0	•	•	775.8		0.0	1		1	
1 19	•		0.0	•	:	<u> </u>		0.0			 	
	: :		0.0	•	:	862.0		0.0			[ ]	. ! !
:	1 1680		•	•		905.1		0.0	1		1	
22			0.0	:	•	948.2		0.0	1		] ;	! !
23			0.0	•	:	991.3		0.0			! !	
24	::		0.0	•	•	1034.4	•	0.0	1		1	<u> </u>
25	• •		0.0		•	1077.5	•				! 	
26	2080		•	:	•	1120.6		0.0	i		! 	! !
27	2160		•	•	•	1163.7		0.0	i			
28	2240		•	•	•	1206.8		0.0	i			, 
29	! !		0.0	•	•	1249.9			i			
30	2400		0.0	•	•	1293.0		•	i			
31	2480		•		•	1336.1	0.0	0.0	i			
32	2560		0.0	0.0	:	1379.2	0.0	0.0	i		i	j
j 33	2640		0.0	0.0	•	1422.3	0.0	0.0	i		i	į
34	2720	0.0	0.0	0.0	•	1465.4	0.0	0.0	j		İ	
35	2800	0.0	0.0	0.0	•	1508.5	0.0	0.0	j			
36	2880	0.0	0.0	0.0	Ù	1551.6	0.0	0.0	İ		į	
37	2960	0.0	0.0	0.0	İ	1594.7	ი.0	0.0	İ			
38	3040	0.0	0.0	0.0		1637.8	0.0	0.0	Ì	,	J i	İ
39	3120	0.0	0.0	0.0		1680.9	0.0	0.0	1		<b>i</b>	i
40	3200	0.0	0.0	0.0		1724.0	0.0	0.0	İ		ĺ	i
+	++		+	+	1-	<del></del>		<del></del>	+			i
+		- ~ -	+	•	•	h		<b> </b>	+		+	
+	OASPL		115.6	98.1		•		42.5			<b> </b> <b> </b>	 
,			, = = = = = = = = = = = = = = = = = = =	,		,	<del> </del>	,	7		r	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL. DB RE 2E-5 PA

MICROPHONE: MP 9 ( PITCH ANGLE: 23.7 DEG )

		+-					 DΔTΔ-1	POINT /	RIIN					ŀ
		-						·						
4	<b></b>	 <del> - </del>	CN	-5 / +	98 +		CN-	-6 / : 	102 			+	 	
	HN		F	SPL	SPLA	Ì	F	SPL	SPLA		F	SPL	SPLA	
	1		80.0	113.5	91.0		43.1	83.7	49.1				 	ľ
- 1	2	11	160.0	108.1	94.7	1	86.2	0.0	0.0			Ì		ĺ
-	3	П	240.0	107.6	99.0	Į.	129.3	0.0	0.0			<b>l</b> .		ĺ
- 1	4	П	320.0	108.1	101.5	1	172.4	0.0	0.0					l
į	5	Ш		104.0	99.2	L	215.5	0.0	0.0					
-	6	Ш		100.0	-		258.6	0.0	0.0					
Į	7	! !		100.9	97.7		301.7		0.0					
į	8	!!		96.0	94.1		344.8		0.0			}		
- [	9	ļ ļ	720.0	92.8	92.0		387.9		0.0					l
ı	10		800.0	92.7	•		431.0	0.0	0.0					
	11	!!	880.0	89.5	88.7		474.1	0.0	0.0		·			
	12	!!	960.0	86.0	86.0		517.2	0.0	0.0					ļ
į	13	: :	1040.0	85.3	85.3		560.3		0.0					ļ
	14		120.0	82.6	•		603.4		0.0					ĺ
	15	• •	1200.0	81.9	82.5		646.5		0.0					
1	16		1280.0	72.8	73.4		689.6		0.0			 	į	
ļ		• •	1360.0	0.0	0.0		732.7		0.0					
-		• •	1440.0	0.0	0.0		775.8		0.0					i
		• •	1520.0 1600.0	] 0.0 [ 0.0	:		818.9		0.0					ĺ
ŀ		• •	1680.0	0.0	:		862.0 905.1	0.0     0.0	0.0					1
i			1760.0	•	: :		948.2		0.0	ı				
l		• •	1840.0	•	:		991.3	0.0	0.0	1				i
i		• •	1920.0	•	: :		1034.4	0.0	0.0	i			 	i
i		•	2000.0	•	: :		1077.5	0.0	0.0	Ì				i
i			2080.0	•	:		1120.6	0.0	0.0					ĺ
i			2160.0	•	•		1163.7	0.0	0.0	i			·	ĺ
i			240.0	•	•		1206.8		0.0	į			i	ĺ
i			320.0	•	: :		1249.9		0.0	1			Í	ĺ
i			400.0		•		1293.0	0.0	0.0	i			· i	i
į			480.0				1336.1			i		i	i	
i		• •	2560.0	•	: :		1379.2			i			į	!
İ		: :	640.0	•	:		1422.3		0.0	i			i	ı
Ì	34	2	720.0	0.0	0.0	İ	1465.4	0.0	0.0	į			i	
Ī	35	2	0.008	0.0	: :		1508.5		0.0	İ			i	
ĺ	36	2	2880.0	0.0	0.0		1551.6	0.0	0.0	Ì			į	
-	37	12	960.0	0.0	0.0		1594.7	0.0	0.0	İ			j	
-	38	3	3040.0	0.0	0.0	Ì	1637.8	0.0	0.0	ĺ			į	
I	39	3	120.0	0.0	0.0		1680.9	0.0	0.0	1			1	
į	40	3	3200.0	0.0			1724.0						l	
4		<b>-</b>		+	•	•		•		-1		<del>-</del>		-
+	· · · · · · · · ·			f	•	•		•		-				7
•		JAS	PL	•									. !	
4				r	r <del>-</del>	-				•+	******	r		•

- FREQUENCY HZ

MICROPHONE: MP 1 ( PITCH ANGLE: 29.0 DEG )

	+		·	DATA-	POINT /	RUN	***		+ 
+	DN	-1 /	97	DN	-3 /	91	<u> </u>	<del> </del>	 
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
1		103.9	77.7		105.2	79.0		)	
2	120.0	92.6	76.5		94.3	78.2	İ		
3	180.0	84.7	73.8	210.0	93.5	82.6			
4	240.0	82.0	73.4	280.0	88.6	80.0	ļ		
5	300.0	63.5	56.9	350.0	•	78.2		ļ	
6	360.0	69.2	64.4	420.0		64.5	-		
7	420.0	64.3	59.5	490.0	0.0	0.0			!
8	480.0	67.3	64.1	560.0	•	0.0	1	!	
9   10	540.0	59.4	56.2	630.0	•	0.0		! !	
111	600.0    660.0	0.0	0.0	700.0   770.0	] 0.0 ] 0.0	0.0     0.0	-		[ ]
1 12	720.0	0.0	0.0	840.0	0.0	0.0	!	 	
13	780.0	0.0	0.0	910.0	0.0	0.0	!	i !	! !
14	840.0	0.0	0.0	980.0	0.0	0.0	i	1	;
15	900.0	0.0	0.0	1050.0	0.0	0.0	ì		i
16	960.0	0.0	0.0	1120.0	0.0	0.0	i		i
17	1020.0	0.0	0.0	1190.0	0.0	0.0	j	i	İ
18	1080.0	0.0	0.0	1260.0	0.0	0.0	i	İ	i
19	11140.0	0.0	0.0	1330.0	0.0	j 0.0 j	j	i	İ
20	11200.0	0.0	0.0	1400.0	0.0	0.0	Ì	į	İ
21	1260.0	0.0	0.0	1470.0	0.0	0.0	İ	j	İ
22	1320.0	0.0	0.0	1540.0	0.0	0.0		]	]
23	1380.0	0.0	0.0	1610.0	0.0	] 0.0		<b>i</b> .	
24	1440.0	0.0	0.0	1680.0	0.0	[ 0.0 ]	1	<b>i</b> .	
25	1500.0	0.0	0.0	1750.0	0.0	0.0		<b>j</b>	
26	1560.0	0.0	0.0	1820.0	0.0	0.0 [		į i	[
27	1620.0	0.0	0.0	1890.0	0.0	0.0	!	<u> </u>	
28	[ ]1680.0	0.0	0.0	1960.0	0.0	0.0	!	!	j
29	1740.0	0.0	0.0	2030.0	0.0	0.0	1	ļ	!!
	1800.0	0.0	•	2100.0	0.0	0.0	1		
*	1860.0		:	2170.0	:		1	į	
•	1920.0   1980.0	•	:	2240.0	•	: :	Ĭ	[ 1	! !
•	[2040.0	•	: '	2310.0  2380.0	,	0.0     0.0	•	1	! !
	[[2100.0		•	2450.0	•	: :	· ·		! !
	2160.0			2520.0		•		1	
•	2220.0	•		•	•		:	1	 
•	[2280.0	:	:	•	•		:		
•	[2340.0	•	•	•	•		•		}
	[2400.0								
-	++			•	•	•	•	+	, 
	~~~~~~							+	<del>-</del>
	OASPL							!	
+		+	+	+	 	++	+	+	-

- FREQUENCY HZ

MICROPHONE: MP 2 (PITCH ANGLE: 29.0 DEG)

	•	+ 			DATA-	POINT /	RUN		******	
+	.	l DN	-1 /		DN	-3 /	91	ļ	+	
H	N	F +	SPL	SPLA	· -	SPL	SPLA	F	SPL	SPLA
•	1	•	105.9			110.0		į		
•	2	120.0	•		140.0			. !	ļ	
:	3	•	96.6		210.0			<u> </u>	ļ	
•	4	•	86.5		280.0				<u> </u>	
•	5	•	81.9		350.0		85.6			
•	6	•	68.5		420.0			.	<u> </u>	
•	7		73.3		490.0	•	•		! !	
:	8	480.0	-		560.0	•		 	l i	
1 1	9	1	59.1	•	630.0 700.0	•	73.2 70.2	I I	l i	
1	•	600.0 660.0	0.0 0.0	•	770.0	•	0.0		! !	! !
1:	•	720.0	•	•	840.0	•	0.0	1 1	!]	
1:	•	780.0	•		910.0	•	0.0	i	! 	
1 1		840.0	•	•	980.0	•	0.0	i	! }	i
1.		900.0	•	•	1050.0	•	0.0	i	i	
1.0		960.0	•	•	1120.0	•	0.0	İ	, ,	
1	•	1020.0	•	•	1190.0	•	•	i	ĺ	i
1		1080.0	•	•	1260.0	•		i	i	i
j 19		1140.0	•	•	1330.0	•		i	į	i
1 2	οį	1200.0	0.0	0.0	1400.0	0.0	0.0	İ	İ	İ
2	1	1260.0	0.0	0.0	1470.0	0.0	0.0	İ	Ì	į į
2	2	1320.0	0.0	0.0	1540.0	0.0	0.0		ļ	
2:	3	1380.0	0.0	0.0	1610.0	0.0	0.0		Ì	
2	4	1440.0	0.0	0.0	1680.0	0.0	0.0		1	
2		1500.0	•	•	1750.0	•		1		
20	•	1560.0	•	•	1820.0	•		ļ		
•	•	1620.0	•	•	1890.0	•	•	ļ]	
	•	1680.0	•	•	1960.0	•		ļ	!	
29	•	1740.0	•	•	2030.0	•	0.0	<u> </u>	ļ	
•		1800.0	•	•	2100.0		0.0	ļ !		!
3	•	1860.0	0.0	•	2170.0	0.0	0.0	<u> </u>		
3:	•	1920.0	0.0	•	2240.0	0.0	0.0	1	ļ	ļ
3:		1980.0	0.0	:	2310.0	0.0	0.0	 	i •	,
34		2040.0	0.0		2380.0	0.0	0.0		,	}
3:		2100.0	0.0	0.0	2450.0 2520.0	0.0	0.0) 	1
30		2160.0 2220.0	0.0	:	2520.0	0.0	0.0 0.0	1	i 1	
3		2280.0	0.0	•	2660.0	0.0	0.0	[[! 	!
1 3	•	2340.0	•	•	2730.0	0.0	0.0	İ	i	! ! ! !
•	•	2400.0	•	•	2800.0	,	0.0		<u> </u>	
+	 -	,	,			+		· 		
+			<u> </u>	 	+	+	+	- -	+	+
1	0	ASPL	107.6	89.6	1	112.3	96.8	1		
+			 		+	+	+	+	t	+ - -+

F - FREQUENCY HZ

SPL ~ SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 3 (PITCH ANGLE: 29.0 DEG)

i				DATA-I	POINT /	RUN			
1	DN-	-1 /	97	DN·	-3 /	91		.4	L
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
1	60.0	108.1	81.9	70.0	112.9	86.7	ij	İ	İ
2	120.0	103.1	87.0	140.0	108.2	92.1		1	!
3	180.0	95.9	85.0	210.0	103.0	92.1	Ц		1
4	240.0	88.9	80.3	280.0	98.7	90.1	[]		Ĭ
5	300.0	81.1	74.5	350.0	94.5	87.9	11	,	Ī
6	360.0	81.3	76.5	420.0	90.9	86.1	11	1	I
7	420.0	63.5	58.7	490.0	84.3	81.1			İ
8	480.0	0.0	0.0	560.0	79.4	76.2			l
9	540.0	0.0	0.0	630.0	76.4	74.5	11		I
10	600.0	0.0	0.0	700.0	72.7	70.8	11	-	1
11	660.0	0.0	0.0	770.0	69.9	69.1	11		1
12	720.0	0.0	0.0	840.0	0.0	0.0	H		1
13	780.0	0.0	0.0	910.0	0.0	0.0	[]	Į	l
14	840.0	0.0	0.0	980.0	0.0	0.0	[]		Į
15	900.0	0.0	0.0	1050.0	0.0	0.0	11	Į	l
16	960.0	0.0	0.0	1120.0	0.0	0.0	[]	Į	1
17	[1020.0	0.0	0.0	1190.0	0.0	0.0	11	1	l
18	1080.0	0.0	0.0	1260.0	0.0	0.0	11	-	l
19	1140.0	0.0	0.0	1330.0	0.0	0.0	11	ł	l
20	1200.0	0.0	0.0	1400.0	0.0	0.0	11	1	l
21	1260.0	0.0	•	1470.0	0.0	0.0	11		ļ
22	1320.0	0.0	0.0	1540.0	0.0	0.0	11	1	l
23	1380.0	0.0	0.0	1610.0	0.0	0.0	11		ļ
24	1440.0	0.0	0.0	1680.0	0.0	0.0	11	-	ł
25	1500.0	0.0	0.0	1750.0	0.0	0.0	li	l l	ļ
26	1560.0	0.0	0.0	1820.0	0.0	0.0	11		
27	1620.0	0.0		1890.0	0.0	0.0	11	-	1
28	1680.0	0.0	•	1960.0	0.0	0.0	[]		ļ
•	1740.0	0.0	•	2030.0	0.0	0.0	[]	Ţ	1
	1800.0			2100.0					ļ
				2170.0		0.0		1	!
				2240.0				- [1
				2310.0				1	1
				2380.0				- [
				2450.0		0.0		1	!
	•	•	•	2520.0	7	•			
				2590.0				!	1
				2660.0				!	
				2730.0					ļ
				112800.0				!	ļ
				 - 					
				 - 				-+	+
			90.6 +	11				ı	1

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

JAN INGIBEBBA NGIGE IEDI

MICROPHONE: MP 4 (PITCH ANGLE: 29.0 DEG)

		+			DATA-	POINT /	RUN			 [
		j Dn	-1 /	97	li DN	·		I		İ
+	HN	F	SPL	SPLA	 F	SPL	++ SPLA	+ F	SPL	SPLA
Ī	1	60.0	110.0	83.8	70.0	114.8	88.6			
1	2	•	104.2	88.1	140.0	109.5	93.4	1		
-	3	180.0	96.5	85.6	210.0	103.6	92.7	1		
-	4	240.0	90.7	82.1		101.6	93.0	İ	rise as	
ļ	5	:	83.0	76.4	350.0	96.7	90.1	ļ	ļ	
	6	360.0	79.8	75.0	420.0	93.7	88.9	ļ	ļ j	
1	7	420.0	75.8	71.0	490.0	89.1	85.9	ļ	ļ ļ	
Į	8	480.0	63.4	60.2	560.0	85.7	82.5]	
1	9	540.0	0.0	0.0	630.0	80.4	78.5			
!	10	600.0	0.0	0.0	700.0	74.2	72.3	Į	[
ļ	11	660.0	0.0	0.0	770.0	0.0	0.0	ļ		
!	12	720.0	0.0	0.0	840.0	0.0	0.0	ļ	ļ	
-	13	780.0	0.0	0.0	910.0	0.0	0.0	!		
-	14	840.0	0.0	0.0	980.0	0.0	0.0	!	!!!	
ŀ	15	900.0	0.0	0.0	1050.0	0.0	0.0	ļ		
1	16	960.0	0.0	0.0	11120.0	0.0	0.0			
- -	17 18	1020.0 1080.0	0.0	0.0	1190.0	0.0	0.0	-	!	
ł	19	1140.0	0.0	0.0	1260.0	0.0	0.0			
	20	1200.0	0.0 0.0	0.0 0.0	1330.0 1400.0	0.0	0.0			
i		1260.0	0.0		1470.0	0.0	0.0	1		1
-	:	1320.0	0.0		1540.0	0.0	0.0			1
i		1380.0	0.0		1610.0	0.0	0.0	1	 	1
i		1440.0	0.0		1680.0	0.0	0.0	1		1
ł	25	1500.0	0.0		1750.0	0.0	0.0	-		1
i	26	1560.0	0.0		1820.0	0.0	0.0	i		i
i		1620.0	0.0		1890.0	0.0	0.0	1	1 1	
i	•	1680.0	0.0		1960.0	0.0	0.0	1		1
i	:	1740.0	0.0		2030.0	0.0	0.0			
i	•	1800.0	0.0		2100.0	0.0	0.0	i	i i	
İ	•	1860.0	•		2170.0	0.0	: :	i	i i	
İ	32	1920.0	0.0		2240.0	0.0	0.0	i	i i	i
İ	33	1980.0	0.0		2310.0	0.0	i o.o i	i	i i	i
Ì	34	2040.0	0.0	0.0	2380.0	0.0	0.0	İ	i i	j
1	35	2100.0	0.0	0.0	2450.0	0.0	0.0		i i	i
	36	2160.0	0.0	0.0	2520.0	0.0	0.0	İ	İ	į
	•	2220.0	0.0	0.0	2590.0	0.0	0.0	1	l i	i
	•	2280.0	•	•	2660.0	0.0	0.0	1	l i	j
	•	2340.0	:	•	2730.0	0.0	0.0	1	l į	Ì
1	40	2400.0	0.0		2800.0	0.0	0.0	1	1 1	j
+		+	+	-	•		+ -	+	+	
+					+			+	+	
ļ				91.8	•		99.6	!	! !	ļ
ተ			r	r	-+		r -	+	+	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DIAM ENGINEERING HOTOL INOI

MICROPHONE: NP 5 (PITCH ANGLE: 29.0 DEG)

	† <u>-</u>			DATA-	POINT /	RUN			
+	DN-	-1 /	97 	l dn	-3 / +	91 	+	f	
HN	Γ F	SPL	SPLA	į F	SPL	SPLA	F	SPL	SPLA
1	: :	111.3	85.1	•	115.9	89.7	!		
2	: :	105.1	89.0	•	111.4	95.3		!	
3	180.0	97.0	86.1		101.6	90.7	Ì	!	
4	240.0	87.4	78.8	280.0	101.6	93.0		į	
5	300.0	87.1	80.5	350.0	99.6	93.0	1	!	ļ <u> </u>
6	360.0		69.7	420.0	90.3	85.5		1]
7	{ 420.0	73.1	68.3	490.0	87.5	84.3		<u>{</u>	
8	480.0	70.2 { 59.8	67.0 56.6	560.0	83.3	80.1 76.2		!	
9	540.0 600.0	0.0	0.0	700.0	78.1 74.4	72.5	1	J I	! !
111	660.0	0.0	0.0	770.0	0.0	0.0	ł	<u>}</u>	
12	720.0	0.0	0.0	840.0	0.0	0.0	1) 	
13	780.0	0.0	0.0	910.0	0.0	0.0	1	1	: :
14	840.C	0.0	0.0	980.0	0.0	0.0	i	1	
15	900.0	0.0	0.0	1050.0	0.0	0.0		i	i i
16	960.0	0.0	•	1120.0	0.0	0.0	i	İ	i
17	1020.0	0.0		1190.0	0.0	0.0	i	j	
18	11080.0	0.0	•	1260.0	0.0	0.0	Ì	i	
j 19	11140.0	0.0	•	1330.0	0.0	j 0.0 j	İ	i	i
20	1200.0	0.0	•	1400.0	0.0	0.0	İ	İ	İ
21	11260.0	0.0	0.0	1470.0	0.0	0.0	1	j	
22	1320.0	0.0	0.0	1540.0	0.0	0.0		1	
23	1380.0	0.0		1610.0	0.0	0.0		1	
24	1440.0	0.0	•	1680.0	0.0	0.0		[
25	1500.0	0.0	•	1750.0	0.0	0.0		ļ	
•	11560.0	0.0	•	1820.0	0.0	0.0]	
•	1620.0	0.0		1890.0	0.0	0.0		ļ	
28	[[1680.0	0.0	•	1960.0	0.0	0.0	ļ	ļ	<u> </u>
29	1740.0	0.0	0.0	2030.0	0.0	0.0		1	
•	1800.0	0.0		2100.0	0.0	0.0]
	1860.0	_	•	2170.0	•	: :	1	1	!!!
•	1920.0	•		2240.0	0.0	: :		1	
	1980.0 2040.0	•	•	2310.0 2380.0	•	: :	 	[{
•	2040.0	•	•	2450.0	•	•	 	! 	
•	2160.0 2160.0	•	•	2520.0	•	:	 	! !	! ! 1
	[2220.0	•	•			•	I	i	, l
	2280.0						i	1	t l j l
•	2340.0	•		•	•	•	İ	i	j
•	2400.0	•	•	•	•	•	i	j	j i
-	 - 	•	-		•	•			+
+		+	t	++	+	+	+	+	+
								1	
+		+	+	h	+	+	+	+	+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 6 (PITCH ANGLE: 29.0 DEG)

		+	~ ~ ~ ~ ~ ~ ~ .		DATA-	POINT /	RUN			+
4		DN	·1 /	97	DN-	-3 /	91	ļ	.	
	HN	F	SPL	SPLA	Γ F	SPL	SPLA	F	SPL	SPLA
į	1	•	111.2	•		115.1	88.9	!		
ļ	2		103.7	87.6	: :	110.0	93.9	}		
ļ	3	180.0	94.1	83.2	•	100.1	89.2	ļ		
į	4	240.0	83.7	75.1	280.0	99.5	90.9			ļ
ļ	5	300.0	82.7	76.1	350.0	96.1	89.5	!		
ŀ	6	360.0	78.4	73.6	420.0	85.7	80.9			
[7	420.0	72.8	68.0	490.0	85.0	81.8			
	8	480.0	63.8	60.6	560.0	78.8	75.6			
1	9	540.0	0.0	0.0	630.0	71.6	69.7	!		
1	10	600.0 660.0	0.0	0.0	700.0	0.0	0.0	ļ		
1	11 12	720.0	0.0	0.0	770.0	0.0	0.0			
1	13	780.0	0.0	0.0	840.0 910.0	0.0	0.0	1		
1	14	840.0	0.0	0.0	980.0	0.0	0.0	1		
i	15	900.0	0.0	•	1050.0	0.0	0.0			
i	16	960.0	0.0	•	1120.0	0.0	0.0	!		,
i	17	1020.0	0.0		1190.0	0.0	0.0	ì		
i	18	1080.0	0.0	•	1260.0	0.0	0.0			
i	19	1140.0	0.0	•	1330.0	0.0	0.0	i		i
i	20	1200.0	0.0	•	1400.0	0.0	0.0			i
i	21	1260.0	0.0		1470.0	0.0	0.0	i		i
j	22	1320.0	0.0		1540.0	0.0	0.0	i		i
İ	23	1380.0	0.0	0.0	1610.0	0.0	0.0	j		i
İ	24	1440.0	0.0	0.0	1680.0	0.0	0.0	i		į
1	25	1500.0	0.0	0.0	1750.0	0.0	0.0	į i		İ
١	26	1560.0	0.0	0.0	1820.0	0.0	0.0	i		
	27	1620.0	0.0	0.0	1890.0	0.0	0.0			1
-	28	1680.0	0.0		1960.0	0.0	0.0	1		!
١	29	1740.0	0.0	0.0	2030.0	0.0	0.0	!		ļ
١		1800.0	0.0		2100.0	0.0	0.0	ļ		. !
ļ	•	1860.0	0.0		2170.0	0.0	: :	!		ļ
ļ		1920.0	0.0		2240.0	0.0	0.0			!
ļ		1980.0	:		2310.0	0.0	0.0			ļ
1	•	2040.0			2380.0	0.0	0.0	}		ļ
!	•	2100.0	0.0		2450.0	0.0	0.0	ļ		ļ
-		2160.0			2520.0	0.0	0.0	<u> </u>		!
1	•	2220.0 2280.0	•	•	2590.0 2660.0	0.0	0.0	1		İ
1	•	2340.0	•		2730.0		0.0	1		j 1
1		2400.0			12800.0		0.0	1		1
+	•	+	•		2000.0 			 	: 	! +
+	•		•	•	•					·+
-	C	ASPL	112.0	90.8	j .	116.5	98.1			į
+			+	r		-	r	+	h	

F - FREQUENCY HZ
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA
SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 7 (PITCH ANGLE: 29.0 DEG)

		+ I			DATA -	POINT /	DIM			+ 1
						•				
+	+	DN:	-1 / +	97 	DN	-3 / +	91 +	+	+	
1	HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
į	1	1	109.3	83.1	•	•	87.0	i	ļ	
-	2	120.0	96.6	•		•	:		ļ	
ļ	3	180.0	85.1		210.0	7	84.7		!	
ļ	4	240.0	68.7	60.1	280.0	•	69.8	1	ļ ,	1
I	5 6	300.0	75.6	69.0	350.0	:	0.0		<u> </u>	
1	7	360.0 420.0	73.9 73.4	69.1 68.6	420.0	:	0.0	1	<u> </u>	
ļ	8	480.0	66.7	63.5	490.0 560.0	:	0.0 0.0] }	
	9	540.0	60.0	56.8	630.0	1	0.0	1] 	
i	10	600.0	0.0	0.0	700.0	•	0.0	1]]	1
i	11	660.0	0.0	0.0	770.0	0.0	0.0	1] }	1
i	12	720.0	0.0	0.0	840.0	0.0	0.0	į		
i	13	780.0	0.0	0.0	910.0	0.0	0.0	i	i	
i	14	840.0	0.0	i 0.0 i	980.0	0.0	0.0	i	i	i
İ	15	900.0	0.0	0.0	1050.0	0.0	0.0	İ	į į	į
İ	16	960.0	0.0	0.0	1120.0	0.0	0.0	1	İ	ĺ
- [17	1020.0	0.0	0.0	1190.0	0.0	0.0	1		l
-	18	1080.0	0.0	0.0	1260.0	0.0	0.0]	I
Ţ	19	1140.0	0.0	0.0	1330.0	0.0	0.0	1		ĺ
ļ	20	1200.0	0.0	0.0	1400.0	0.0	0.0		!	ļ
ļ	21	1260.0	0.0	0.0	1470.0	0.0	0.0	-		
-	22	1320.0	0.0	0.0	1540.0	0.0	0.0		Į	. !
1	23 24	1380.0 1440.0	0.0	0.0	11610.0	0.0	0.0	-		
İ	•	1500.0	0.0	0.0	1680.0 1750.0	0.0	0.0 0.0	ļ	i !	
ł	26	1560.0	0.0	0.0	1820.0	0.0	0.0		i	1
i	•	1620.0	0.0	0.0	1890.0	0.0	0.0	1	!]
i	28	1680.0	0.0	0.0	1960.0	0.0	0.0	i	1	j
i	29	1740.0	0.0	0.0	2030.0	0.0	0.0	ì	i	į
İ	30 j	1800.0	0.0	0.0	2100.0	0.0	0.0	i	i	j
Ì	31	1860.0	0.0	0.0	2170.0	0.0	0.0	İ	j	İ
1	•	1920.0	0.0	0.0	2240.0	0.0	0.0	1	1	1
-	•	1980.0	0.0		2310.0	0.0	0.0	1]	į
ļ	•	2040.0	0.0	•	2380.0	0.0	0.0		[
ļ	•	2100.0	•		2450.0	0.0	0.0	ļ		
ļ	•	2160.0	•		2520.0	0.0	0.0		!	
-	•	2220.0	•		2590.0	•	0.0			
I		2280.0 2340.0			2660.0		0.0	1	!	,
1	•	12400.0	•		2730.0		0.0		1	
+	+	+	U.U		2000,0 	•		 -+	! +	
+			+		· -+	-		+	+	
1	0	ASPL	109.5	85.7		113.8	91.5	1	1	
+			··		+	 	+ -	÷		-

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 9 (PITCH ANGLE: 29.0 DEG)

	•	+ 	M to 50 40 40 40 41	***	-	DATA-1	POINT /	RUN			<u>-</u>
+	+	 DN	-1 /	97 		DN-	-3 /	91		+	
H	IN	F	SPL	SPLA	<u>.</u>	F	SPL	SPLA	F	SPL	SPLA
į	1	•	111.8	85.6	ļ	•	111.6	85.4	į		į
•	2	•	103.6	87.5	ļ	140.0	108.0	91.9		<u> </u>	
•	3	180.0	96.1	85.2	ļ	210.0	98.9	88.0			
•	4	240.0	85.0	76.4	ļ	280.0	102.3	93.7			
•	5	300.0	85.6	79.0	ļ	350.0	99.3	92.7	ļ	!	. !
•	6	360.0	79.4	74.6	ļ	420.0	91.2	86.4			f 1
•	7	420.0 480.0	63.4 67.2	58.6 64.0	ŀ	490.0	84.3 86.1	81.1 82.9	1] }	1
•	8 9	540.0	64.2	61.0	!	560.0 630.0	76.3	74.4		! !	
•	0	600.0	58.7	56.8	l	700.0	0.0	0.0	<u> </u>] }	
•	1	660.0	0.0	0.0	l	770.0	0.0	0.0	1		
•	2	720.0	0.0	0.0	ľ	840.0	0.0	0.0	l İ	! 	İ
•	3	780.0	0.0	0.0	i	910.0	0.0	0.0	! 	: 1	
•	4	840.0	0.0	0.0	ï	980.0	0.0	0.0		i	i
•	.5	900.0	0.0	0.0	i	1050.0	0.0	0.0	İ	i	i
•	6	960.0	0.0	0.0	i	1120.0	0.0	0.0	Ϊ	i `	i
•	L7	1020.0	0.0	0.0	İ	1190.0	0.0	0.0	j	i	i
•	18 j	1080.0	0.0	0.0	İ	1260.0	0.0	0.0	İ	i i	İ
1	.9 j	1140.0	0.0	0.0	İ	1330.0	0.0	0.0	İ	İ	İ
2	20	1200.0	0.0	0.0	Ì	1400.0	0.0	0.0	į	j i	ĺ
2	21	1260.0	0.0	0.0		1470.0	0.0	0.0			
2		1320.0	0.0	0.0		1540.0	0.0	0.0			1
•		1380.0	0.0	0.0	ĺ	1610.0	0.0	0.0		! [
•	•	1440.0	0.0	0.0	•	1680.0	0.0	0.0		į į	
•	•	1500.0	0.0	0.0	•	1750.0	0.0	0.0		ļ	ļ
•	•	1560.0	0.0	0.0	-	1820.0	0.0	0.0	ļ]
•	•	1620.0	0.0	0.0	-	1890.0	0.0	0.0			ļ
•		1680.0	0.0	0.0		1960.0	0.0	0.0	!	<u> </u>	
•	•	1740.0	0.0	0.0	•	2030.0	0.0	0.0	ļ	!	
:	•	1800.0	0.0			2100.0	0.0	0.0		i i	ļ
•	•	1860.0 1920.0	0.0			2170.0 2240.0	0.0	0.0 0.0	i I] }	! !
•		1980.0	i	:	•	2310.0	0.0	0.0		!	1
:	•	2040.0	i -		•	2380.0	0.0	0.0	1	! 	
•	•	2100.0		-	•	2450.0	0.0	0.0		! !	
•		2160.0			•	2520.0		0.0	i		[
• .	•	2220.0	i	:	•	2590.0			i	İ	i
•	•		0.0	:	-	2660.0			į	j	i
•	•	2340.0	•	•	•	2730.0	0.0	0.0	İ	j	i
•	•	2400.0	•	•	•	2800.0		0.0	İ	j	i
+	+	+			•	+		•	+	t	
+			•	•	•	+	•		•	+	
1	0.	ASPL	112.5	•	•	•		98.7	•		1
÷				t	+	t	h	r+	+	 	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 1

(PITCH ANGLE: 29.0 DEG)

	•	+ 				DATA-	POINT /	RUN				
+	-4-	DN·	-4 /	96	 -	DN-	-2 /	93 [.]		l DN	-5 / +	92
HN	<u> </u>	F	SPL	SPLA		F	SPL	SPLA	 	F	SPL	SPLA
1	•	•	80.5	•		•	104.1			•	•	76.1
2		•	68.4	•			93.5	77.4		•	100.4	84.3
3	•	106.8	0.0				81.1			•	87.0	76.1
4	ļ	142.4	0.0	0.0			81.9	•			82.1	73.5
5	!	178.0	0.0	0.0		300.0	76.1	69.5	ļ	325.0	75.9	69.3
6	ł	213.6	0.0	0.0		•	68.6	63.8	ļ	390.0	77.2	72.4
7	ł	249.2	0.0	0.0		•	66.7			•	•	69.0
8	•	284.8	•			•	69.2	•		520.0		66.8
9	•	320.4	0.0	0.0		•	60.8	1		1	65.7	63.8
10	- !	356.0	0.0	0.0		600.0	0.0			•	62.9	61.0
11	ł	391.6 427.2	•	0.0		660.0	•	0.0		715.0	56.6	55.8
12	•	•	0.0	•			•	•		•	0.0	0.0
1 14	•	462.8 498.4	0.0	•			•	•		•	0.0	0.0
1 15	•	534.0	0.0		1		•	•		•	•	0.0
16	•	569.6	0.0	•		960.0	•			975.0	0.0	0.0
1 17	•	605.2	0.0			1020.0	•			1040.0 1105.0		0.0
18	•	640.8				1020.0	•			1170.0	•	0.0
19		676.4	•			1140.0				1235.0		0.0 0.0
20	i	712.0	•			1200.0				1233.0		0.0
21		747.6	•	•		1260.0	•			1365.0		0.0
22	-	783.2	•			1320.0	•			1430.0		0.0
23	•	818.8	•			1380.0	•	•		1495.0	•	0.0
24	•	854.4	•			1440.0	•			1560.0	•	0.0
25	•	890.0	•			1500.0	•			1625.0	•	0.0
26	•	925.6		•		1560.0	•	•		1690.0	•	0.0
1 27	:	961.2	•	•	•	1620.0	•	•		1755.0	•	0.0
28	•	996.8	•	•		1680.0	•			1820.0		. ,
29	•	1032.4	•			1740.0				1885.0	•	0.0
j 30	•	1068.0	0.0	•	i	1800.0	•			1950.0	•	0.0
j 31	i	1103.6	0.0	:		1860.0	•			2015.0	•	:
32		1139.2	0.0	: :		1920.0				2080.0	•	•
33	İ	1174.8	0.0	0.0	Ιİ	1980.0	•			2145.0		
34		1210.4	0.0	•		2040.0	•	:		2210.0		
35		1246.0	0.0	0.0	H	2100.0	0.0			2275.0		: !
36		1281.6	0.0		H	2160.0	0.0	0.0		2340.0	0.0	: :
37		1317.2	0.0	0.0	H	2220.0	0.0	0.0		2405.0	0.0	•
38	•	•	0.0			2280.0	•			2470.0		
39	•	1388.4	•							2535.0		
•	•	1424.0	•							2600.0		
+	-+-	 								+	-	•
+										+	•	
	0	ASPL								I		
+				-	H		 	h		+	+	+ -

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 2 (PITCH ANGLE: 29.0 DEG)

++ HN ++	DN-	<u>-</u>	96	l DN					
HN	F	ו מחד			-2 / +	93	DN	-5 /	92
		SPL	SPLA	j F	SPI.	SPLA	F	SPL	SPLA
	35.6	77.9	43.3	•	105.6	79.4	65.0	108.8	82.6
2	71.2	0.0	0.0	120.0	99.7	83.6	130.0	104.5	88.4
3	106.8	0.0	0.0	180.0	96.1	85.2	195.0	96.2	85.3
4	142.4	0.0	0.0	240.0	84.7	76.1	260.0	91.7	83.1
5	178.0	0.0	0.0	300.0	78.5	71.9	325.0	85.8	79.2
6 1	213.6	0.0	0.0	360.0	75.8	71.0	390.0	82.4	77.6
7 8	249.2 284.8	0.0	0.0	420.0	74.7	69.9	455.0	80.7	77.5
9	320.4	0.0	0.0	480.0	69.5 64.0	66.3 60.8	520.0	68.3	65.1
10	356.0	0.0	0.0	540.0 600.0	71.9	00.8 70.0	585.0 650.0	70.7 66.5	68.8 64.6
11	391.6	0.0	0.0	660.0	59.5	57.6	715.0	56.0	55.2
12	427.2	0.0	0.0	720.0	56.1	55.3	780.0	0.0	0.0
13	462.8	0.0	0.0	780.0	0.0	0.0	845.0	0.0	0.0
14	498.4	0.0	0.0	840.0	0.0	0.0	910.0	0.0	0.0
15	534.0	0.0	0.0	900.0	0.0	0.0	975.0	0.0	0.0
16	569.6	0.0	0.0	960.0	0.0	0.0	1040.0	0.0	0.0
17	605.2	0.0	0.0	1020.0	0.0	0.0	1105.0	0.0	0.0
18	640.8	0.0	0.0	1080.0	0.0	0.0	1170.0	0.0	0.0
19	676.4	0.0	0.0	1140.0	0.0	i o.o i	1235.0	0.0	0.0
20	712.0	0.0	0.0	1200.0	0.0	i 0.0 i	1300.0	0.0	0.0
21	747.6	0.0	0.0	1260.0	0.0	0.0	1365.0	0.0	0.0
22	783.2	0.0	0.0	1320.0	0.0	0.0	1430.0	0.0	0.0
23	818.8	0.0	0.0	1380.0	0.0	0.0	1495.0	0.0	0.0
24	854.4	0.0	0.0	1440.0	0.0	0.0	1560.0	0.0	0.0
25	890.0	0.0	0.0	1500.0	0.0	0.0	1625.0	0.0	0.0
26	925.6	0.0	0.0	1560.0	0.0	0.0	1690.0	0.0	0.0
27	961.2	0.0	0.0	1620.0	0.0	0.0	1755.0	0.0	0.0
28	996.8	0.0	0.0	1680.0	0.0	0.0	1820.0	0.0	0.0
	1032.4	0.0	0.0	1740.0	0.0	0.0	1885.0	0.0	0.0
: : :	1068.0	0.0	•	1800.0	0.0	0.0	1950.0	0.0	0.0
	1103.6	0.0		11860.0		•	2015.0		0.0
	1139.2	0.0		1920.0	•		2080.0	0.0	0.0
	1174.8	0.0	•	1980.0	•		2145.0	0.0	0.0
	1210.4 1246.0	0.0	•	2040.0 2100.0	•		2210.0	0.0	0.0
	1281.6	0.0	•	2160.0	•		2275.0 2340.0	0.0	0.0
	1317.2	0.0		2220.0	•	•	12405.0	0.0	0.0
	1352.8			2280.0	•	, ,	2403.0	0.0	0.0
	1388.4			•	•		2535.0		0.0
	1424.0			2400.0	•		2600.0		0.0
	•		•	•	•		+		
							+		
OA						88.7	+		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

(PITCH ANGLE: 29.0 DEG) MICROPHONE: MP 3

	+	W 400 TO SW SW THE SQ T		DATA-	POINT /	RUN			
	DN-	-4 /	96	DN	-2 /	93	l DN	-5 / +	92
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
11	35.6	86.9	52.3	60.0	109.2	83.0	65.0	110.7	84.5
2	71.2	66.7	44.2	120.0	101.6	85.5	•	105.9	89.8
3	106.8	•	0.0	180.0	95.8	84.9	195.0	100.3	89.4
4	142.4		0.0	•	•	79.7	•	•	•
5	178.0	•	0.0	300.0	•	60.8	•	•	•
6	213.6	0.0	0.0	360.0	•	64.7	T	•	•
7	249.2	0.0	0.0	420.0	•		455.0	•	•
8	284.8	0.0	0.0	480.0	•		520.0	•	•
9	320.4	0.0	0.0	540.0	•		585.0	•	•
10	356.0	0.0	0.0	600.0	•	69.3	•	•	•
	391.6	0.0	0.0	660.0		• •	715.0	•	0.0
12	427.2	0.0	0.0	720.0	•		780.0	•	0.0
13	462.8	•	0.0	780.0	•		845.0	•	•
14	498.4	0.0	0.0	840.0	•	0.0	910.0	•	•
15	534.0	0.0	0.0	900.0	•	0.0	975.0	•	•
16	569.6	0.0	0.0	960.0	•	•	11040.0	0.0	•
17	605.2	0.0	0.0	1020.0	•	•	11105.0	•	
18	640.8	0.0	0.0 0.0	11080.0	•	•	11170.0	0.0	0.0
19 20	676.4 712.0	0.0	0.0	1140.0 1200.0	•	•	1235.0 1300.0	0.0	0.0
21	747.6	0.0	0.0	1260.0	•	•	1365.0	0.0	0.0 0.0
22	783.2	0.0	0.0	1320.0	•		1430.0	0.0	0.0
23	818.8	0.0	0.0	1380.0	•		1495.0	0.0	0.0
24	854.4	0.0	0.0	1440.0			1560.0	0.0	0.0
25	890.0	0.0	0.0	1500.0	0.0	•	1625.0	0.0	0.0
26	925.6	0.0	0.0	1560.0	0.0	0.0	1690.0	0.0	0.0
27	961.2	0.0	0.0	1620.0	0.0	0.0	1755.0	0.0	0.0
28	996.8	0.0	0.0	1680.0	0.0		1820.0	0.0	0.0
29	1032.4	0.0	0.0	1740.0	0.0		1885.0	0.0	0.0
30	1068.0	0.0		1800.0	0.0		1950.0	0.0	0.0
i 31 i	1103.6	0.0		1860.0	0.0	•	2015.0		•
	1139.2	0.0		1920.0	0.0	: :	2080.0	<u> </u>	•
	1174.8	0.0	•	1980.0	0.0		2145.0	•	0.0
	1210.4	0.0	•	2040.0	0.0	•	2210.0	0.0	
	1246.0	0.0	0.0	2100.0	0.0	•	2275.0	0.0	0.0
36	1281.6	0.0	0.0	2160.0	0.0	0.0	2340.0	0.0	0.0
37	1317.2	0.0	0.0	2220.0	0.0	0.0	2405.0	0.0	0.0
38	1352.8	0.0	,	2280.0	0.0	0.0	2470.0	0.0	0.0
	1388.4	•		2340.0					0.0
40	1424.0			2400.0			2600.0		
				+		-		•	•
								-	•
•	ASPL	•	•	•		89.9	•	112.4	
+			t		+	 		t	t

F - FREQUENCY HZ SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 4 (PITCH ANGLE: 29.0 DEG)

	•	+ 			- .	DATA-I	POINT /	RUN	*****		+
.1		DN-	-4 /	96		DN·	-2 /	93	DN	-5 /	92
1	HN	F	SPL	SPLA	l	F	SPL	SPLA	F	SPL	SPLA
į	1	35.6	88.1	53.5	İ	•	110.9	84.7	:	113.3	87.1
ļ	2 3	71.2 106.8	71.1	48.6	ļ	120.0	102.9	86.8	130.0 195.0	106.9	90.8
[3 <u> </u> 4	142.4	0.0	0.0	1	180.0 240.0	96.1 90.7	85.2 82.1	260.0	100.2 97.0	89.3 88.4
ł	5	178.0	0.0	0.0	!	300.0	82.6	76.0	325.0	93.3	86.7
i	6	213.6	0.0	0.0	i	360.0	80.3	75.5	390.0	88.5	83.7
i	7	249.2	0.0	0.0	i	420.0	74.0	69.2	455.0	81.8	78.6
i	8	284.8	0.0	0.0	i	480.0	70.5	67.3	520.0	64.3	61.1
1	9	320.4	0.0	0.0	i	540.0	63.7	60.5	585.0	74.4	72.5
i	10	356.0	0.0	0.0	ì	600.0	0.0	0.0	650.0	66.7	64.8
i	11	391.6	0.0	0.0	į.	660.0	0.0	0.0	715.0	63.9	63.1
i	12	427.2	0.0	0.0	İ	720.0	0.0	0.0	780.0	65.6	64.8
i	13	462.8	0.0	0.0	İ	780.0	0.0	0.0	845.0	59.3	58.5
İ	14	498.4	0.0	0.0	Ì	840.0	0.0	0.0	910.0	0.0	0.0
1	15	534.0	0.0	0.0	Ì	900.0	0.0	0.0	975.0	0.0	0.0
1	16	569.6	0.0	0.0	ļ	960.0	0.0	0.0	1040.0	0.0	0.0
1	17	605.2	0.0	0.0	l	1020.0	0.0	0.0	1105.0	0.0	0.0
	18	640.8	0.0	0.0		1080.0	0.0	0.0	1170.0	0.0	0.0
-	19	676.4	0.0	0.0	ļ	1140.0	0.0	0.0	1235.0	0.0	0.0
-	20	712.0	0.0	0.0	ļ	1200.0	0.0	0.0	1300.0	0.0	0.0
ļ	21	747.6	0.0	0.0	ļ	1260.0	0.0	: :	1365.0	0.0	0.0
1	22	783.2	0.0	0.0	ļ	1320.0	0.0	0.0	1430.0	0.0	0.0
ļ	23	818.8	0.0	0.0	•	1380.0	0.0	0.0	1495.0	0.0	0.0
1	24	854.4	0.0	0.0	•	1440.0	0.0	0.0	1560.0	0.0	0.0
ŀ	25	890.0	0.0	0.0	•	1500.0	0.0	0.0 0.0	11625.0	0.0	0.0
	26 27	925.6	0.0	0.0	•	1560.0 1620.0	0.0	0.0	1690.0 1755.0	0.0	0.0
1	28	996.8	0.0	0.0	•	1680.0	0.0	0.0	1820.0	0.0	0.0
l	29	1032.4	0.0		•	1740.0	0.0	0.0		0.0	0.0
1	30	1068.0	0.0		•	1800.0	0.0		1950.0	0.0	0.0
i		1103.6	0.0		•	1860.0	0.0	:	2015.0	•	: :
i	•	1139.2	0.0		•	1920.0	0.0		2080.0	0.0	
İ	•	1174.8	0.0		•	1980.0	0.0	:	2145.0	0.0	0.0
İ	34	1210.4	0.0	0.0	İ	2040.0	0.0	0.0	2210.0	0.0	0.0
İ	35	1246.0	0.0	0.0		2100.0	0.0	0.0	2275.0	0.0	0.0
ĺ	36 j	1281.6	0.0		•	2160.0	0.0		2340.0	0.0	0.0
1		1317.2	0.0	•	•	2220.0	0.0	•	2405.0	0.0	
-	•	1352.8	0.0			2280.0		,	2470.0	,	
	•	1388.4	•			2340.0			2535.0	!	: :
1	40	1424.0	0.0		•	2400.0	•		2600.0	•	0.0
+.		÷		•	-	-			·+		tt
+.				•	-	-			+ !	-	•
ا اد	0,	ASPL	88.2					91.3	 -+		96.1
7.			T	L	т.	r		, - 7		,	1

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 5 (PITCH ANGLE: 29.0 DEG)

	+		***************************************		DATA-1	POINT /	RUN				+
	DN•	-4 /	96		DN-	-2 /	93		DN-	-5 /	92
HN	F	SPL	SPLA	 -	F	SPL	SPLA		F	SPL	SPLA
1 1	35.6	88.9	54.3		•	111.8	•			115.0	88.8
2 3	71.2	71.5	49.0 0.0	ļ	120.0 180.0	104.5 95.5	:			108.1 100.5	92.0 89.6
3	142.4	0.0	:	i	1 240.0	86.1	•		260.0	•	88.0
5	178.0	0.0	•	ŀ	300.0	•	:	[[325.0	92.6	86.0
6	213.6	0.0	•	ļ	360.0	•			390.0	•	81.7
7 1	249.2	0.0	•	!	420.0	75.5	:			83.0	79.8
8	284.8	0.0	0.0	!	480.0	71.2			520.0	•	75.4
	320.4	0.0	•	i	540.0	67.2			585.0	71.8	69.9
10	356.0	0.0	0.0	í	600.0	58.5			650.0	67.4	65.5
111	391.6	0.0	0.0	i	660.0	0.0	:	ii	715.0	67.2	65.4
12	427.2	0.0	•	İ	720.0	•	:	ii	780.0	68.2	67.4
13	462.8	0.0	•	İ	780.0	•	:	ij	845.0	60.5	59.7
14	498.4	0.0	0.0	İ	840.0	0.0	0.0	H	910.0	63.1	63.1
15	534.0	0.0	0.0	ĺ	900.0	0.0	0.0	П	975.0	0.0	0.0
16	569.6	0.0	0.0		960.0	0.0	0.0	1	.040.0	0.0	0.0
17	605.2	0.0	•	•	1020.0	•	•		105.0	0.0	0.0
18	640.8	0.0	•	•	1080.0	•	•		170.0	•	0.0
19	676.4	0.0	•	•	1140.0	•	,		.235.0	•	0.0
20	712.0	0.0			1200.0				300.0	•	0.0
21	747.6		•	•	1260.0				.365.0	•	0.0
22	783.2		•	•	1320.0	•			430.0	•	0.0
23	818.8		•	•	1380.0	•			495.0	•	0.0
24	854.4	0.0	•	•	1440.0	•	•		.560.0	•	0.0
25	890.0	0.0	•	•	1500.0	•			625.0	•	0.0
26 27	925.6	0.0 0.0	•	•	1560.0 1620.0	•	•		.690.0	•	0.0
28	996.8	0.0			1680.0				755.0 820.0	0.0	0.0
20	1032.4	0.0	•	•	1740.0	0.0		•	.885.0	0.0	0.0
30	1068.0	0.0	•	•	1800.0	0.0			950.0	0.0	0.0
1	1103.6	0.0		:	1860.0	0.0			015.0	0.0	0.0
: :	1139.2	0.0	•	•	1920.0	0.0		•	080.0	0.0	0.0
	1174.8	0.0	•	•	1980.0	0.0	•	•	145.0	0.0	0.0
34	1210.4	0.0	•	•	2040.0	0.0	:		210.0	0.0	0.0
35	1246.0	0.0	0.0	ĺ	2100.0	0.0		: :	275.0	0.0	0.0
36	1281.6	0.0	•	•	2160.0	0.0			340.0	0.0	0.0
	1317.2	0.0	•	•	2220.0	0.0			405.0	0.0	0.0
	1352.8	0.0	•	•	2280.0	0.0		•	470.0	0.0	0.0
	1388.4		•	•	2340.0	•			535.0	•	0.0
	1424.0				2400.0						0.0
++	+				+						⊦
0	ASPL	89.0	55.5	ı]	112.6	92.1			116.0	96.6
t	~~~~~~		t	+	+			- - - -		+	h

F - FREQUENCY HZ

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SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 6 (PITCH ANGLE: 29.0 DEG)

	+			DATA-1	POINT /	RUN			
+	DN-	-4 /	96	l DN	-2 /	93	DN	-5 /	92
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
1 1	35.6	87.5	52.9	:	110.7	84.5	•	115.5	89.3
2	71.2	73.8	51.3	120.0	103.6	87.5	130.0	107.2	91.1
3	106.8	0.0	. ,	180.0	93.1	82.2	195.0	96.8	85.9
4	142.4	0.0	0.0	240.0	83.7	75.1	260.0	96.2	87.6
5	178.0	0.0	0.0	300.0	78.8	72.2	325.0	90.9	84.3
6	213.6	0.0	0.0	360.0	77.4	72.6	390.0	86.6	81.8
7 1	249.2	0.0	0.0	420.0	74.3	69.5	455.0	74.6	71.4
8 1	284.8	0.0	0.0	480.0	68.2	65.0	520.0	72.4	69.2
9 1	320.4	0.0	0.0	540.0	63.2	60.0	585.0	72.2	70.3
10	356.0	0.0	0.0 0.0	660.0	61.8	59.9 0.0	650.0 715.0	69.0 68.1	67.1 67.3
1 12	391.6	0.0	0.0	720.0	0.0	0.0 0.0	780.0	67.8	67.0
13	462.8	0.0	0.0	780.0	0.0	0.0	845.0	64.2	63.4
14	498.4	0.0	0.0	840.0	0.0	0.0	919.0	59.7	59.7
15	534.0	0.0	0.0	900.0	0.0	0.0	975.0	0.0	0.0
16	569.6	0.0	0.0	960.0	0.0	0.0	1040.0	0.0	0.0
17	605.2	0.0		1020.0	0.0	0.0	1105.0	0.0	0.0
18	640.8	0.0	0.0	1080.0	0.0	0.0	1170.0	0.0	0.0
19	676.4	0.0		1140.0	0.0	0.0	1235.0	0.0	0.0
20	712.0	0.0	0.0	1200.0	0.0	0.0	1300.0	0.0	0.0
21	747.6	0.0		1260.0	0.0	0.0	1365.0	0.0	0.0
22	783.2	0.0		1320.0	0.0	0.0	1430.0	0.0	0.0
j 23 j	818.8	0.0		1380.0	0.0	i o.o i	1495.0	0.0	0.0
24	854.4	0.0		1440.0	0.0	0.0 j	1560.0	0.0	0.0
25	890.0	0.0		1500.0	0.0	0.0	1625.0	0.0	0.0
26	925.6	0.0	0.0	1560.0	0.0	0.0	1690.0	0.0	0.0
27	961.2	0.0	0.0	1620.0	0.0	0.0	1755.0	0.0	0.0
28	996.8	0.0	0.0	1680.0	0.0	0.0	1820.0	0.0	0.0
29	1032.4	0.0	0.0	1740.0	0.0	0.0	1885.0	0.0	0.0
30	1068.0	0.0	0.0	1800.0	0.0	0.0	1950.0	0.0	0.0
31	1103.6	0.0		1860.0	0.0	•		•	0.0
	1139.2		•	1920.0	0.0	•	2080.0	0.0	
	1174.8			1980.0	0.0		2145.0	0.0	
•	1210.4			2040.0	•		2210.0	•	
	1246.0	0.0		2100.0	0.0		2275.0	0.0	
	1281.6			2160.0	0.0		2340.0		•
	1317.2		•	2220.0	0.0		2405.0		
	1352.8	•		2280.0			2470.0		
	1388.4			2340.0	•			•	
ii	1424.0 		h					+	
•	ASPL	•		•	•	90.4	-		++ 95.5

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROP			EST							
	HONE: MP	7 (PITCH A	ANGLE: 29	O DEG)				
	+									
		DATA-POINT / RUN								
	DN-	-4 /	96	II DN	-2 /	93] DN	-5 /	92	
HN	F	SPL	SPLA		SPL	SPLÁ	F	SPL	SPL	
1	35.6	81.9	47.3	60.0	105.2	79.0	65.0	112.9	86.	
! 2	71.2	67.7	45.2	120.0	95.2	79.1	130.0	102.8	86.	
3	106.8	[0.0	0.0	180.0	83.7	72.8	195.0	93.6	82.	
4	142.4	0.0	0.0	240.0	58.9	50.3	260.0	84.0	75.	
5	178.0	0.0	0.0	300.0	0.0	0.0	325.0	76.3	69.	
6	213.6	0.0	0.0	360.0	0.0	0.0	390.0	79.1	74.	
17	249.2	0.0	0.0	420.0	0.0	0.0	455.0	73.7	70.	
8	284.8	0.0	0.0	480.0	0.0	0.0	520.0	68.6	65.4	
9	320.4	0.0	0.0	540.0	0.0	0.0	585.0	72.2	70.	
10	356.0	0.0	0.0	600.0	0.0	0.0	650.0	71.4	69.	
11	391.6	0.0	0.0	660.0	0.0	0.0	1 715.0	69.2	68.	
12	427.2	0.0	0.0	720.0	0.0	0.0	780.0	62.1	61.	
13	462.8	0.0	0.0	780.0	0.0	0.0	845.0	0.0	0.	
14	498.4	0.0	0.0	840.0	0.0	0.0	910.0	0.0	0.0	
15	534.0	0.0	0.0	900.0	0.0	0.0	975.0	0.0	0.0	
16	569.6	0.0	0.0	960.0	0.0	0.0	1040.0	0.0	0.0	
17	605.2	0.0	0.0	1020.0	0.0	0.0	1105.0	0.0	0.0	
18	640.8	0.0	0.0	1080.0	0.0	0.0	1170.0	0.0	0.0	
19	676.4	0.0		1140.0	0.0	0.0	1235.0	0.0	0.	
20	712.0	0.0	•	1200.0	0.0	0.0	1300.0	0.0	0.0	
21	747.6	0.0	•	1260.0	0.0	0.0	1365.0	0.0	0.	
22	783.2	0.0		1320.0	0.0		1430.0	0.0	0.	
	818.8	0.0	•	1380.0	0.0	•	1495.0	0.0	0.	
	854.4	0.0		1440.0	0.0	•	1560.0	0.0	0.	
	890.0	0.0		1500.0	0.0	•	1625.0	0.0	0.	
	925.6	0.0	•	1560.0	0.0	:	1690.0	0.0	0.0	
•	961.2	0.0	•	1620.0	0.0	•	11755.0	0.0	0.	
•	996.8	0.0	•	11680.0	0.0	0.0	11820.0	0.0	0.	
	11032.4	0.0	•	11740.0	0.0	0.0	11885.0	0.0	0.	
	1068.0	0.0	•	11800.0	0.0	0.0	1950.0	0.0	0.	
	11103.6	0.0	:	11860.0	0.0	0.0	2015.0	0.0	0.	
: •	1139.2	0.0		11920.0	0.0	0.0	2080.0	0.0	0.	
•	1174.8	0.0	0.0	11980.0	0.0	0.0	2145.0	0.0	0.	
•	1210.4	0.0	0.0	2040.0	0.0	0.0	2210.0	0.0	0.	
•	1246.0	0.0	0.0	2100.0	0.0	0.0	2275.0	0.0	0.	
•	1281.6	0.0	0.0	2160.0	0.0	0.0	2340.0	0.0	0.	
	1317.2	0.0	0.0	2220.0	0.0	0.0	2405.0	0.0	0.	
	1352.8	0.0	0.0	2280.0	0.0	0.0	2470.0	0.0	0.	
	1388.4	0.0	•	2340.0	•	0.0		0.0	0.	
1 40	1424.0	0.0	U.U 	2400.0 	0.0	•	2600.0	0.0	0.	

F - FREQUENCY HZ SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

MICROPHONE: MP 9 (PITCH ANGLE: 29.0 DEG)

	+			DATA-1	POINT /	RUN			
	DN·	-4 /	96	DN	-2 /	93	DN	-5 /	92
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
1 1	35.6	85.1	50.5	• •	110.8	84.6	•	113.7	87.5
2 3	71.2 106.8	0.0 0.0	0.0	•	103.0	86.9 84.3	130.0	108.1	92.0 86.2
3	142.4	0.0	0.0	180.0 240.0	95.2 85.5	64.3 76.9	260.0	97.1 96.0	87.4
5	178.0	0.0	0.0	300.0	84.3	77.7	325.0	90.4	83.8
6	213.6	0.0	0.0	360.0	80.6	75.8	390.0	82.7	77.9
1 7 1	249.2	0.0	0.0	420.0	69.6	64.8	455.0	79.7	76.5
8	284.8	0.0	0.0	480.0	65.2	62.0	520.0	74.8	71.6
j 9 j	320.4	0.0	0.0	540.0	0.0	0.0 j	585.0	72.1	70.2
10	356.0	0.0	0.0	600.0	0.0	0.0 j	650.0	58.0	56.1
11	391.6	0.0	0.0	660.0	0.0	0.0	715.0	0.0	0.0
12	427.2	0.0	0.0	720.0	0.0	0.0	780.0	0.0	0.0
13	462.8	0.0	0.0	780.0	0.0	0.0	845.0	0.0	0.0
14	498.4	0.0	0.0	840.0	0.0	0.0	910.0	0.0	0.0
15	534.0	0.0	0.0	900.0	0.0	0.0	975.0	0.0	0.0
16	569.6	0.0	0.0	960.0	0.0	0.0	1040.0	0.0	0.0
17	605.2	0.0	•	11020.0	0.0	0.0	1105.0	0.0	0.0
18	640.8	0.0	•	11140.0	0.0	0.0	1170.0	0.0	0.0
20	676.4 712.0	0.0 0.0	•	1140.0 1200.0	0.0	0.0 0.0	1235.0	0.0 0.0	0.0 0.0
20	747.6	0.0	•	11260.0	0.0	0.0 0.0	1365.0	0.0	0.0
22	783.2	0.0		1320.0	0.0	0.0	1430.0	0.0	0.0
23	818.8	0.0		1380.0	0.0	0.0	1495.0	0.0	0.0
24	854.4	0.0	•	1440.0	0.0	0.0	1560.0	0.0	0.0
25	890.0	0.0	•	1500.0	0.0	0.0	1625.0	0.0	0.0
26	925.6	0.0		1560.0	0.0	0.0	1690.0	0.0	0.0
27	961.2	0.0	0.0	1620.0	0.0	0.0	1755.0	0.0	0.0
28	996.8	0.0	0.0	1680.0	0.0	0.0	1820.0	0.0	0.0
29	1032.4	0.0	0.0	1740.0	0.0		1885.0	0.0	0.0
: :	1068.0	0.0	•	1800.0	0.0	:	1950.0	0.0	0.0
	1103.6	:	•	1860.0	0.0	•	2015.0	0.0	0.0
	11139.2	0.0		11920.0	0.0	: :	2080.0	0.0	0.0
: :	1174.8		•	11980.0	0.0	•	2145.0	0.0	0.0
: :	1210.4 1246.0		•	2040.0 2100.0	0.0 0.0	: :	2210.0 2275.0	0.0	0.0
: :	1246.0 1281.6		-	2160.0	0.0	: :	2340.0	0.0 0.0	0.0 0.0
•	1317.2		:	2220.0	•	:	2405.0	•	: :
•	1352.8			2280.0		: :	2470.0	:	: :
: :	1388.4	•	:	2340.0			2535.0	•	: :
40	1424.0	0.0	0.0	2400.0	0.0	0.0	2600.0	0.0	0.0
+			+	-	<u> </u>	++	+	+	+
•			50.5 			90.8 ++			95.4

F - FREQUENCY HZ
SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA
SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 8 (PITCH ANGLE: 19.9 DEG)

	+	DATA-POINT / RUN									
+	BN-	-4 /	54 +	1	BN·	-5 /	53	 -	l BN	-6 /	51
HN	 F	SPL	SPLA	 -	F	SPL	SPLA	 -	F	SPL	SPLA
1 1		104.2	•	į	•	109.9	87.4		•	108.2	89.1
2	, ,	102.2	86.1	ļ	•	107.2	93.8	•	•	111.4	•
3	210.0	27.8	86.9	ļ	•	106.5	•	•	•	111.2	
4	280.0	94.0	85.4	ļ	•	102.8	•		•	1111.2	•
5	350.0	88.2	•	ł	•	102.5	97.7	:	•	1110.6	,
6	420.0	85.7	•	į	480.0	99.1	95.9		•	•	107.3
7	490.0	82.2	•	ļ	560.0	96.9	93.7		•	•	108.0
8	560.0	76.3	73.1	ļ	640.0	94.2	92.3		•	•	108.2
9	630.0	70.7	8.83 0.0	ŀ	720.0	92.7	91.9	!	•	•	1107.3
10	700.0	0.0	0.0	ŀ	800.0 880.0	89.0 86.8	88.2		•	•	106.3
11 12	770.0 840.0	0.0	0.0	ŀ	960.0	:	86.0 83.7	i I	•	105.8 104.5	103.8
1 13	910.0	0.0 0.0	0.0	ļ	1040.0	83.7 80.8	80.8		•	•	•
14	1 980.0	0.0	0.0	ŀ	1120.0	78.5	78.5		1260.0	•	103.4 102.5
15	[[1050.0	0.0	0.0	ŀ	1200.0	75.2	75.8		•	•	102.3
16	11120.0	0.0	0.0	•	1280.0	73.7	73.8		1440.0	98.5	99.5
17	11120.0	0.0	0.0	•	1360.0	70.0	70.6		1530.0	97.2	98.2
1 18	11260.0	0.0	0.0	•	1440.0	67.0	68.0		1620.0	95.9	96.9
19	11330.0	0.0	0.0	•	1520.0	63.9	64.9	l	1710.0	93.5	94.5
20	11400.0	0.0	0.0	•	1600.0	0.0			1800.0	92.7	93.9
21	1470.0	0.0	0.0	•	1680.0	0.0			1890.0	92.1	93.3
22	1540.0	0.0	•	•	1760.0	0.0	•		1980.0	89.5	90.7
23	1610.0	0.0	•	•	1840.0	0.0	•		2070.0	89.2	90.4
•	1680.0	0.0	•	•	1920.0	0.0	•		2160.0	86.6	87.8
•	1750.0	0.0	•	•	2000.0	0.0			2250.0	85.1	86.4
•	1820.0	0.0	•	•	2080.0	0.0	•		2340.0	84.3	85.6
	1890.0	0.0			2160.0	0.0	•		2430.0	83.0	84.3
	1960.0	0.0			2240.0	0.0	•		2520.0	81.1	•
•	12030.0	0.0	•	•	2320.0	0.0	•		2610.0	80.7	
•	2100.0	0.0			2400.0	0.0	•		2700.0	79.3	80.6
•	2170.0	•	,	•	2480.0	•			2790.0	•	
-	2240.0				2560.0				2880.0		
•	2310.0	•			2640.0		•		2970.0	•	, ,
	2380.0			•	2720.0	•			3060.0		
-	2450.0	•	•	•	2800.0	•	•		3150.0	•	
	2520.0			•	2880.0	•			3240.0		
	2590.0		•	•	2960.0	•			3330.0		
•	2660.0	•	•						3420.0		
	2730.0								•	•	, ,
	2800.0										
+	++		+	÷	+		+			+	+
											-
	OASPL										
+		f	+	+-	+			-	+	+	+

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

MICROPHONE: MP 8 (PITCH ANGLE: 23.7 DEG)

	+			~	DATA-	POINT /	RUN	:			
_1	CN	-3 /	101	ļ	[CN	-4 /	100		CN	-5 /	98
HN	F	SPL	SPLA		F	SPL	SPLA		F	SPL	SPLA
1	• •	103.9	77.7	l	70.0	108.6	82.4	Ī		111.9	89.4
2	120.0	97.4	81.3	l	140.0	106.4	90.3	1	160.0	109.1	95.7
3	180.0	87.8	76.9	ļ	210.0	101.9	91.0	Ţ	240.0	108.2	99.6
4	240.0	83.8	75.2	ļ	280.0	96.6	88.0	ļ	320.0	104.7	98.1
5	300.0	71.6	65.0	ļ	350.0	90.8	84.2	ļ	400.0	103.9	99.1
6	360.0	0.0	0.0	ļ	420.0	89.1	84.3	1	480.0	101.5	98.3
7	420.0	0.0	0.0	ļ	490.0	84.8	81.6	!	560.0	98.5	95.3
8	480.0	0.0	0.0	ļ	560.0	79.4	76.2	ŀ	640.0	95.2	93.3
9	540.0	0.0	0.0	ļ	630.0	73.3	71.4	ļ	720.0	95.1	94.3
10	600.0	0.0	0.0	ļ	700.0	70.3	68.4	1	800.0	90.8	90.0
11	660.0	0.0	0.0	!	770.0	66.3	65.5	ł	880.0	88.6	87.8
12	720.0	0.0	0.0 0.0	!	840.0	62.1	61.3		960.0 1040.0	87.0	87.0
13	780.0	0.0	•	l	910.0 980.0	61.3	61.3 00	•		82.1	82.1
15	840.0 900.0	0.0	0.0	1	1050.0	0.0	0.0	•	1120.0 1200.0	81.1 78.3	81.1 78.9
16	960.0	0.0	0.0	•	1120.0	0.0	0.0	•	1280.0	75.7	76.3
•	11020.0	0.0	0.0		1120.0	0.0	0.0	•	1360.0	75.2	75.8
•	1020.0	0.0	0.0	•	1260.0	0.0	0.0	•	1440.0	72.3	73.3
	11140.0	0.0	0.0	•	1330.0	0.0	0.0	•	1520.0	68.8	69.8
•	1200.0	0.0	•	•	1400.0	0.0		•	1600.0	0.0	0.0
	1260.0	0.0	•	•	1470.0	0.0		•	1680.0	0.0	0.0
	1320.0	0.0	•	•	1540.0	0.0			1760.0	0.0	0.0
	1380.0	0.0	•	•	1610.0	0.0		•	1840.0	0.0	0.0
	1440.0	0.0	•	•	1680.0	0.0			1920.0	0.0	0.0
	1500.0	0.0	•	•	1750.0	0.0	•	•	2000.0	0.0	0.0
	1560.0	0.0			1820.0	0.0		•	2080.0	0.0	0.0
27	1620.0	0.0			1890.0	0.0	0.0	12	2160.0	0.0	0.0
28	1680.0	0.0	0.0	ĺ	1960.0	0.0	0.0	į	2240.0	0.0	0.0
29	1740.0	0.0	0.0		2030.0	0.0	0.0	12	2320.0	0.0	0.0
30	1800.0	0.0	0.0	1	2100.0	0.0	0.0	12	2400.0	0.0	0.0
31	1860.0	0.0	0.0	l	2170.0	0.0	0.0	12	2480.0	0.0	0.0
32	1920.0	0.0	0.0	1	2240.0	0.0		•	2560.0	•	0.0
	1980.0	0.0	•	7	2310.0		•	•	2640.0	•	: :
	2040.0	•	:	•	2380.0		: :	•	2720.0	7	0.0
•	2100.0	•	•	•	2450.0		• .	•	2800.0	•	: :
	2160.0	•	•	-	2520.0	-	•	•	2880.0	•	•
	2220.0							•	2960.0		,
	2280.0							•	3040.0	•	
	2340.0										
	2400.0										
-	H	-	-					-			
•		•	•	•	•	•		•		•	•
	OASPL 104.9 84.4 111.4 95.9 115.9 106.6										

F - FREQUENCY HZ

West Andreas Character Character and Character

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

7. Comments on Data Interpretation

In the preceding chapters acoustic as-measured data are presented in terms of pressure-time histories and narrow-band spectra for all microphone positions MP 1 to MP 9*.

As stated in the "Executive Report" to this Appendix all data have been analysed regardless of occasional microphone drop-outs or the occurrence of external pressure disturbances which may distort the propeller noise-signature completely.

To avoid erroneous data interpretation, the following list summarizes all those data-points (within the total test-program) which should be deleted with respect to the microphone position indicated:

Microphone Position MP 3:

Delete analyses of Data Points BC-4 BC-5.

Microphone Position MP 6:

Subprogram	Delete analyses of Data Points						
Basic Program	AN-1,2,3,4,5,7; BN-1,2,3,4,5,6,61,7 BC-1,2,3,4,5,6,61,7						
Temperature Effect	HN-3; IN-1,2,3; JN-1,2,3; KN-1,2 HC-1,2; IC-1,2,3;						
Attitude Effect	-						
Installation Effect	FNC-7,8,9,10,11,12						

^{*} MP 8 has only been analysed for data points within the "Attitude-effect" test-program.

In addition, noise data acquired at microphone position MP 7 should be interpreted with care for such data-points which combine low propeller rotational speeds with high tunnel flow-velocities. Respective data are often disturbed due to the effects of microphone vibration. In each of these cases the respective averaged pressure-time history and the corresponding level-spectrum should be inspected carefully. If both data representations do not exhibit any periodic behaviour the respective analysis should not be interpreted.

On top of the averaged pressure-time history plot the number of averages as well as the magnitude of "disturbance-pressure- amplitudes" (which have been detected and deleted within the analysed time-interval) are indicated, the latter by ΔP . In case of completely distorted propeller noise signatures, ΔP generally assumes values of 496% (referenced to the minimum peak-to-peak pressure amplitude within the total number of propeller revolutions analysed). If even higher disturbance amplitudes occur, respective data analyses are marked by $\Delta P >$ *** and should be deleted. Lists of harmonic levels in this case often contain just one level-value for the fundamental frequency (HN=1) which then however has no physical meaning.

Therefore, data interpretation should not be solely based on the listing of harmonic levels. In particular, if only one harmonic level at HN=1 is listed, a careful inspection of the respective level-spectrum (as calculated from the averaged time-history) is necessary to ensure the physical relevance of this harmonic level.